

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P318103

Luminaire Tested: **GAN-SA9D-740-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68072 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

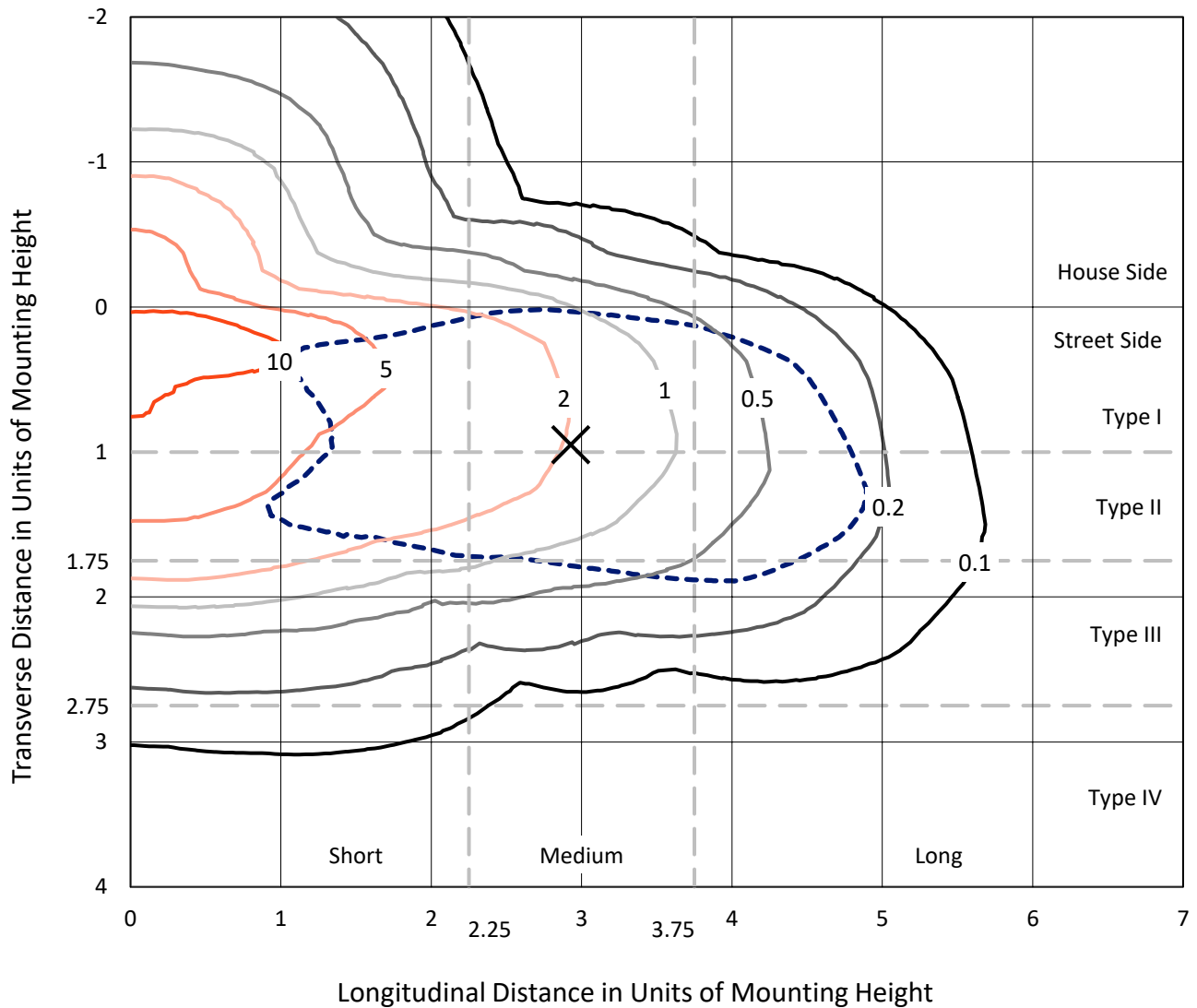
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

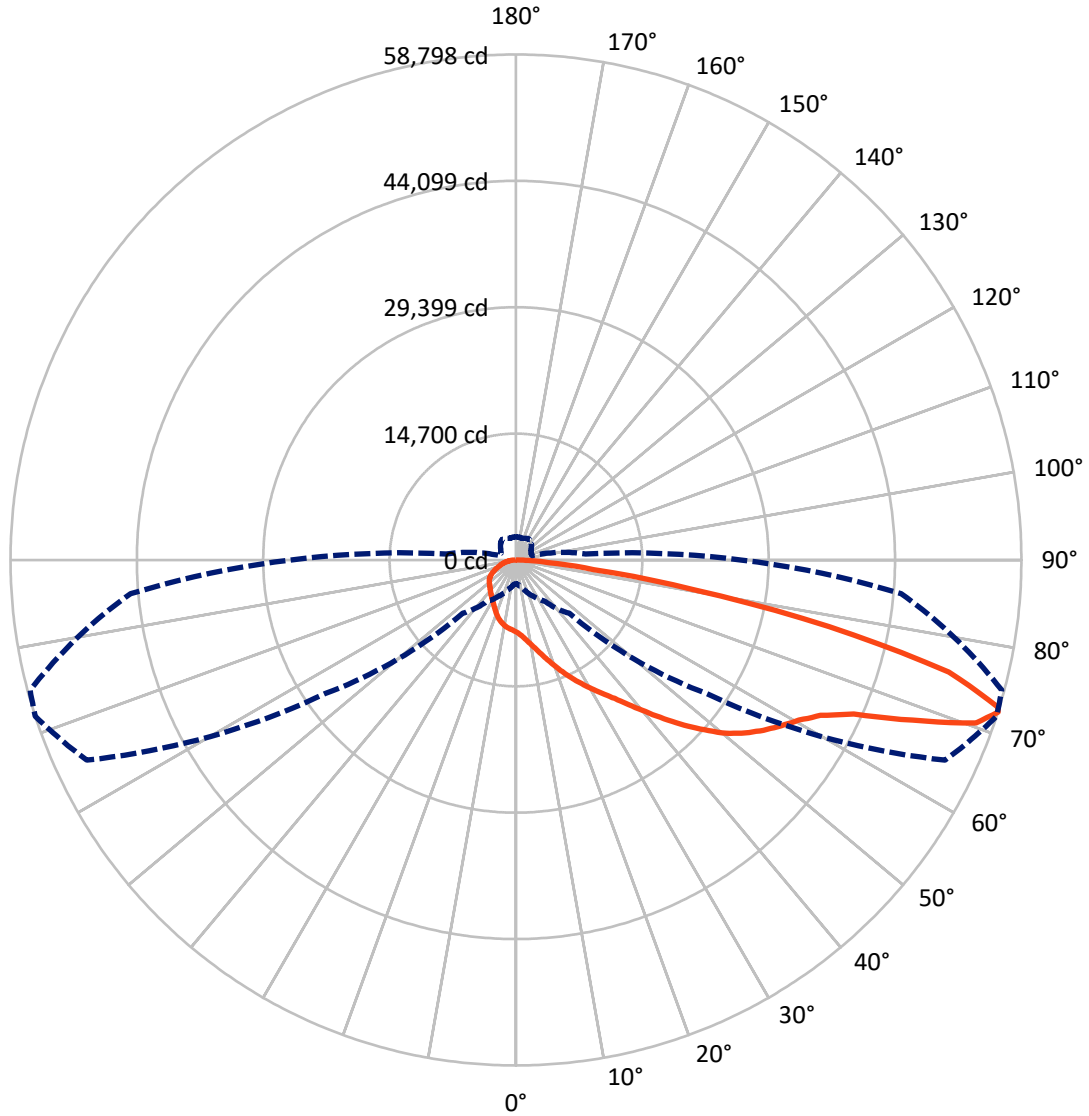
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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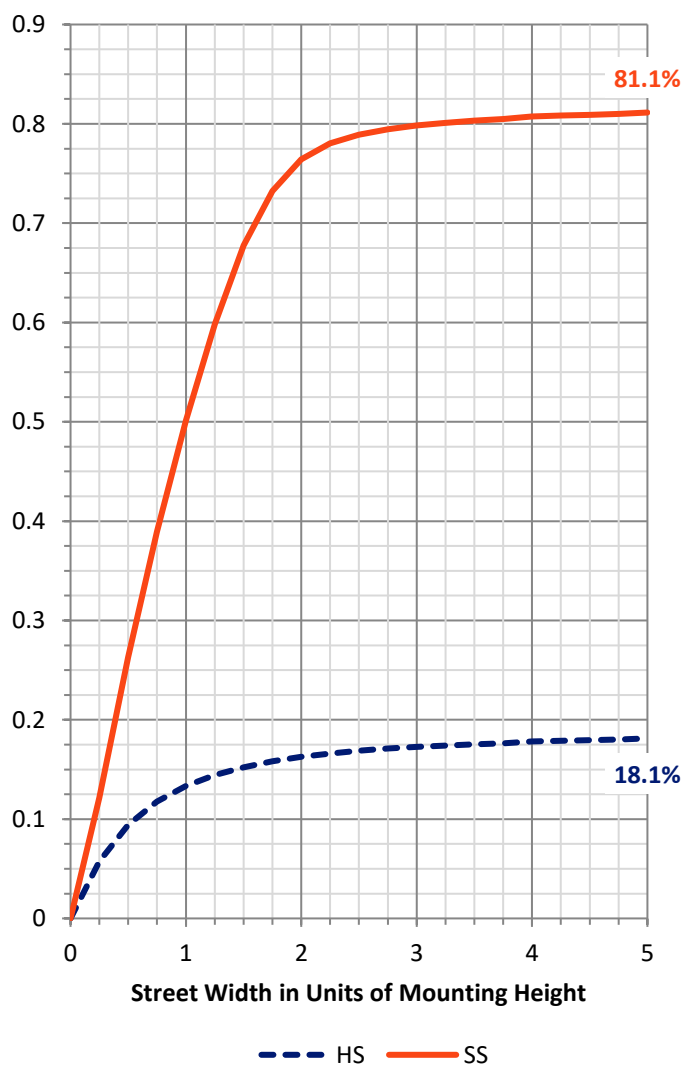
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12627.8	0.0	12627.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	55444.2	0.0	55444.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	68072.0	0.0	68072.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	839.2	1.2
10°-20°	2711.8	4.0
20°-30°	4751.9	7.0
30°-40°	7045.5	10.4
40°-50°	10304.7	15.1
50°-60°	14179.1	20.8
60°-70°	15785.6	23.2
70°-80°	10696.3	15.7
80°-90°	1758.0	2.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	68072.0	100.0
0°-180°	68072.0	100.0

Coefficient of Utilization

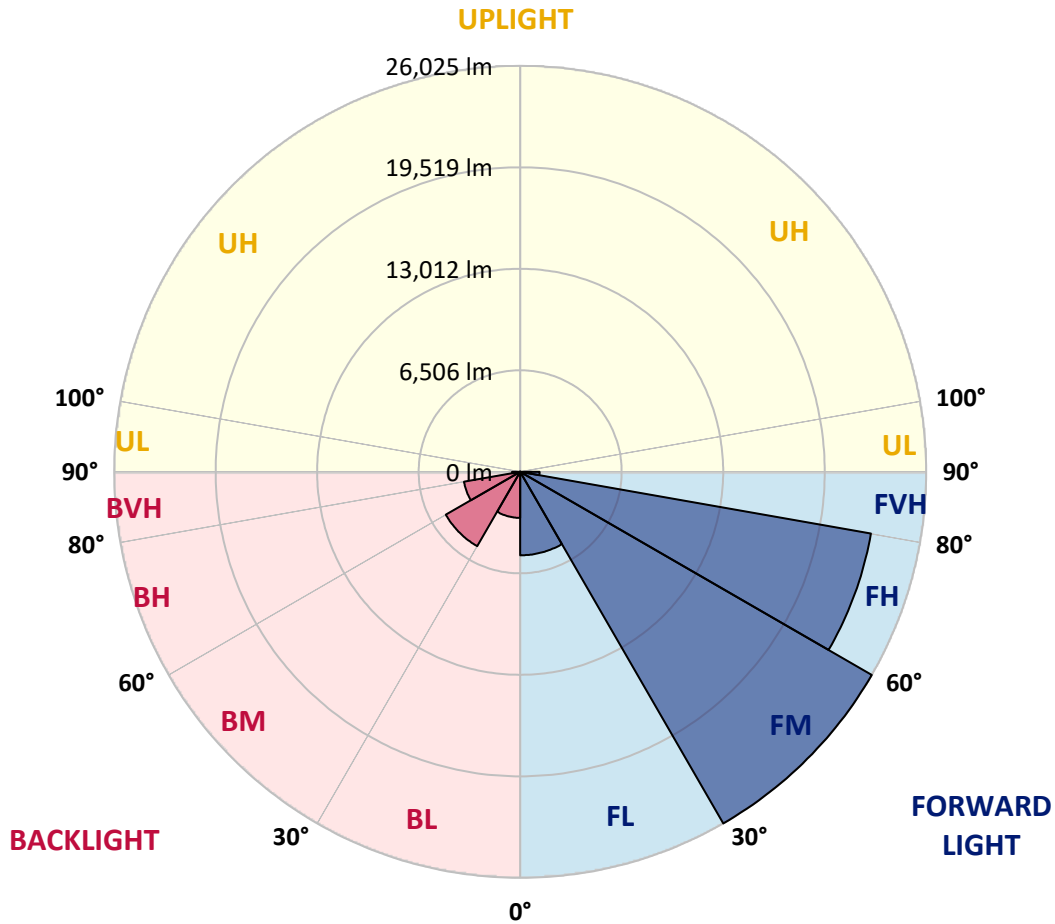


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5350.9	7.9			
FM (30°-60°)	26024.8	38.2			
FH (60°-80°)	22828.5	33.5			G5
FVH (80°-90°)	1240.1	1.8			G5
BL (0°-30°)	2951.9	4.3	B4/5000		
BM (30°-60°)	5504.5	8.1	B4/8500		
BH (60°-80°)	3653.4	5.4	B4/5000		G4/5000
BVH (80°-90°)	518.0	0.8			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6
2.5°	9251.2	9237.2	9188.0	9188.0	9094.2	9014.5	8864.5	8763.7	8644.2	8602.0	8461.4
5°	10146.6	10151.3	10090.3	10048.2	9909.9	9741.1	9485.6	9253.6	9021.5	8927.8	8639.5
7.5°	10899.0	10889.6	10873.2	10838.0	10709.1	10535.7	10191.1	9846.6	9504.4	9363.7	8866.8
10°	11381.8	11402.9	11417.0	11433.4	11379.5	11255.2	10929.4	10509.9	10062.2	9870.0	9138.7
12.5°	11625.6	11663.1	11728.7	11841.2	11930.3	11916.2	11679.5	11234.1	10702.1	10460.7	9478.6
15°	11768.5	11817.8	11920.9	12122.5	12373.3	12516.2	12453.0	12049.8	11456.8	11159.1	9893.5
17.5°	11857.6	11897.5	12056.8	12326.4	12699.1	13078.8	13245.2	12907.7	12310.0	11970.1	10369.3
20°	11918.6	11949.0	12148.3	12464.7	12947.5	13552.2	14016.3	13931.9	13249.9	12809.2	10866.2
22.5°	12054.5	12080.3	12270.1	12588.9	13123.3	13903.8	14759.3	14885.9	14241.3	13742.1	11398.2
25°	12434.2	12434.2	12593.6	12816.3	13317.8	14208.5	15387.5	15947.7	15253.9	14672.6	11890.4
27.5°	13158.5	13151.4	13210.0	13287.4	13667.1	14517.9	15947.7	16885.2	16303.9	15668.7	12368.6
30°	14016.3	14063.2	14070.2	14032.7	14210.9	14904.6	16465.7	17874.3	17361.0	16676.6	12858.4
32.5°	15120.3	15150.7	15115.6	14991.4	14965.6	15453.1	16974.3	18910.3	18504.8	17729.0	13306.1
35°	16521.9	16463.3	16353.2	16100.0	15858.6	16186.7	17555.6	19946.3	19789.3	19001.7	13922.6
37.5°	18024.3	18026.7	17890.7	17316.5	16983.7	17124.3	18357.2	21120.6	21343.2	20515.9	14712.4
40°	19229.1	19292.4	19376.7	18622.0	18190.7	18385.3	19376.7	22482.4	23180.8	22311.3	15741.4
42.5°	20070.5	20143.2	20382.3	19908.8	19461.1	19822.1	20576.8	23935.6	25243.4	24383.2	16946.1
45°	20961.2	21001.0	21169.8	20965.9	20679.9	21493.2	21929.2	25440.3	27425.6	26591.2	18293.9
47.5°	21898.7	21940.9	22114.4	21978.4	21828.4	23054.3	23340.2	26858.4	29516.3	29017.1	19733.0
50°	23056.6	23084.7	23248.8	23002.7	23049.6	24230.9	24601.2	28159.2	31707.8	31196.9	21176.8
52.5°	24636.4	24643.4	24870.8	24648.1	24427.8	25093.4	25686.4	29385.0	33425.9	33184.4	22620.6
55°	25873.9	25948.9	26694.3	26647.4	26520.8	25876.3	26593.5	30552.3	34958.8	35073.6	24153.5
57.5°	25084.0	25377.0	26886.5	27950.6	28986.6	27824.0	27819.3	31867.2	36383.8	36927.6	25838.8
60°	21969.1	22367.5	24591.8	26952.1	30193.7	31213.3	30364.8	33472.7	37823.0	38765.2	27950.6
62.5°	15689.8	16346.1	19360.3	23129.3	28538.9	33458.7	35544.7	36020.5	39780.1	40893.4	30695.3
65°	7931.6	8428.5	10955.2	15495.3	22801.1	31991.4	41174.7	41598.9	43181.0	44170.1	34921.3
67.5°	4819.0	5006.5	6239.4	8618.4	13978.8	24920.0	43012.3	50897.0	49762.6	50287.6	40947.3
70°	3551.0	3689.2	4458.0	5723.7	8039.5	14623.4	37372.9	57532.5	56787.2	56728.6	45400.7
72°	2765.8	2866.5	3546.3	4624.4	5878.4	8773.1	27088.1	55083.2	58798.2	58502.9	44992.8
72.5°	2622.8	2711.9	3330.6	4352.6	5555.0	7952.7	24355.1	53430.8	58652.9	58519.3	44465.5
75°	2064.9	2128.2	2465.7	3365.8	4347.9	4511.9	13346.0	41406.7	52031.5	54194.9	39993.4
77.5°	1708.7	1718.1	1896.2	2449.3	3389.2	3190.0	6555.8	28728.8	37258.1	39637.1	28330.3
80°	1392.3	1404.0	1488.4	1718.1	2564.2	2360.3	3112.7	16519.6	20860.4	20886.2	13472.5
82.5°	1108.6	1111.0	1204.7	1256.3	1842.3	1687.6	1783.7	7755.9	9115.3	8768.4	4842.4
85°	780.5	764.1	1176.6	1031.3	1204.7	1082.9	984.4	3070.5	3768.9	3604.9	1516.5
87.5°	260.2	269.5	522.7	668.0	703.2	614.1	438.3	1176.6	1422.7	1411.0	480.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6
2.5°	8416.8	8341.8	8231.7	8109.8	8013.7	7915.2	7842.6	7805.1	7762.9	7727.7	7769.9
5°	8505.9	8365.3	8130.9	7901.2	7732.4	7582.4	7474.6	7418.3	7366.8	7331.6	7336.3
7.5°	8651.2	8423.9	8030.1	7694.9	7460.5	7298.8	7188.6	7151.1	7118.3	7108.9	7120.7
10°	8805.9	8470.7	7896.5	7451.1	7183.9	7050.3	7001.1	7026.9	7050.3	7071.4	7094.9
12.5°	8981.7	8512.9	7701.9	7165.2	6937.8	6886.3	6935.5	7048.0	7130.0	7179.3	7209.7
15°	9211.4	8550.4	7476.9	6879.2	6726.9	6785.5	6951.9	7146.4	7289.4	7380.8	7394.9
17.5°	9422.3	8548.1	7188.6	6591.0	6555.8	6726.9	6977.7	7251.9	7444.1	7573.0	7598.8
20°	9640.3	8484.8	6853.5	6309.7	6382.3	6663.6	6989.4	7319.9	7551.9	7701.9	7737.1
22.5°	9844.2	8374.6	6485.5	6054.2	6237.0	6579.2	6944.9	7280.0	7512.1	7634.0	7671.5
25°	9982.5	8182.4	6112.8	5838.6	6108.1	6476.1	6799.6	7069.1	7242.5	7303.5	7312.9
27.5°	10052.8	7931.6	5761.2	5651.1	5974.5	6307.3	6530.0	6663.6	6712.8	6708.1	6698.8
30°	10062.2	7601.2	5458.9	5498.7	5819.8	6058.9	6164.4	6138.6	6075.3	5967.5	5976.9
32.5°	10031.7	7228.5	5205.7	5353.4	5622.9	5756.5	5761.2	5637.0	5468.2	5297.1	5250.3
35°	10041.1	6862.8	4983.1	5189.3	5383.9	5442.5	5388.5	5205.7	4976.0	4755.7	4708.8
37.5°	10144.3	6544.1	4790.9	4999.5	5119.0	5133.1	5055.7	4863.5	4694.8	4479.1	4460.4
40°	10390.4	6316.7	4608.0	4786.2	4854.1	4861.2	4751.0	4615.1	4629.1	4514.3	4511.9
42.5°	10833.3	6218.3	4446.3	4563.5	4605.7	4619.8	4535.4	4448.7	4570.5	4495.5	4469.8
45°	11405.3	6241.7	4310.4	4345.5	4422.9	4488.5	4436.9	4331.5	4378.3	4052.5	3944.7
47.5°	12066.2	6391.7	4202.6	4158.0	4291.6	4415.8	4336.2	4176.8	4010.4	3686.9	3626.0
50°	12839.7	6623.8	4104.1	3972.9	4148.6	4317.4	4237.7	4010.4	3759.6	3602.5	3581.4
52.5°	13646.0	6907.4	4005.7	3768.9	3968.2	4242.4	4202.6	3972.9	3663.5	3508.8	3480.6
55°	14560.1	7193.3	3881.4	3532.2	3773.6	4207.2	4186.1	3836.9	3590.8	3504.1	3483.0
57.5°	15696.9	7519.1	3717.4	3286.1	3590.8	4080.7	4015.0	3754.9	3515.8	3450.2	3443.1
60°	17178.2	7999.6	3480.6	3023.6	3368.1	3886.1	3872.1	3635.3	3396.3	3349.4	3340.0
62.5°	19400.2	8794.2	3154.8	2761.1	3119.7	3555.6	3684.6	3473.6	3269.7	3267.3	3272.0
65°	22845.7	9989.6	2800.9	2531.4	2868.9	3276.7	3466.6	3307.2	3140.8	3187.7	3194.7
67.5°	26839.6	10981.0	2454.0	2306.4	2613.4	3011.9	3269.7	3140.8	2969.7	3091.6	3093.9
70°	28168.6	10095.0	2149.3	2083.7	2348.6	2756.4	3056.4	2958.0	2784.5	2906.4	2894.7
72°	26213.8	8149.6	1952.4	1914.9	2149.3	2545.4	2866.5	2786.9	2615.8	2697.8	2667.3
72.5°	25597.4	7769.9	1903.2	1872.7	2095.4	2491.5	2817.3	2744.7	2573.6	2643.9	2615.8
75°	22833.9	6748.0	1636.0	1643.0	1828.2	2229.0	2540.8	2517.3	2341.5	2348.6	2339.2
77.5°	16561.8	4947.9	1378.2	1425.1	1556.3	1959.5	2261.8	2247.8	2055.6	2020.4	2013.4
80°	7685.5	2524.3	1122.7	1143.8	1279.8	1638.4	1929.0	1910.3	1755.6	1711.0	1685.2
82.5°	2632.2	1200.1	843.8	857.9	991.5	1319.6	1673.5	1661.8	1532.9	1446.2	1392.3
85°	939.9	597.7	590.7	576.6	707.8	1038.3	1457.9	1394.6	1204.7	1026.6	1021.9
87.5°	304.7	255.5	304.7	302.4	412.5	703.2	1059.4	902.4	874.3	726.6	712.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)