

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: P317743

Luminaire Tested: **GAN-SA9D-730-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64589 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

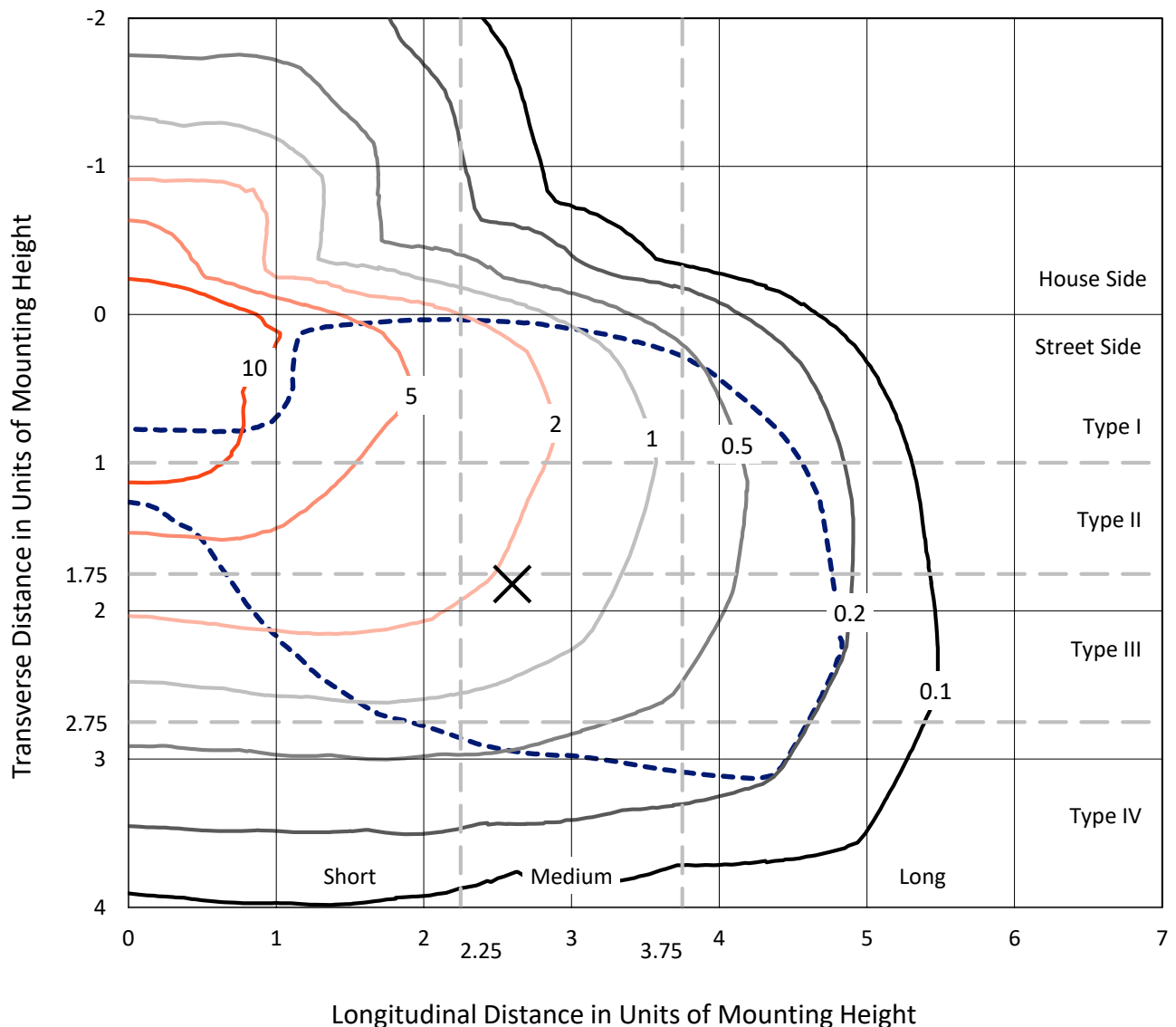
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

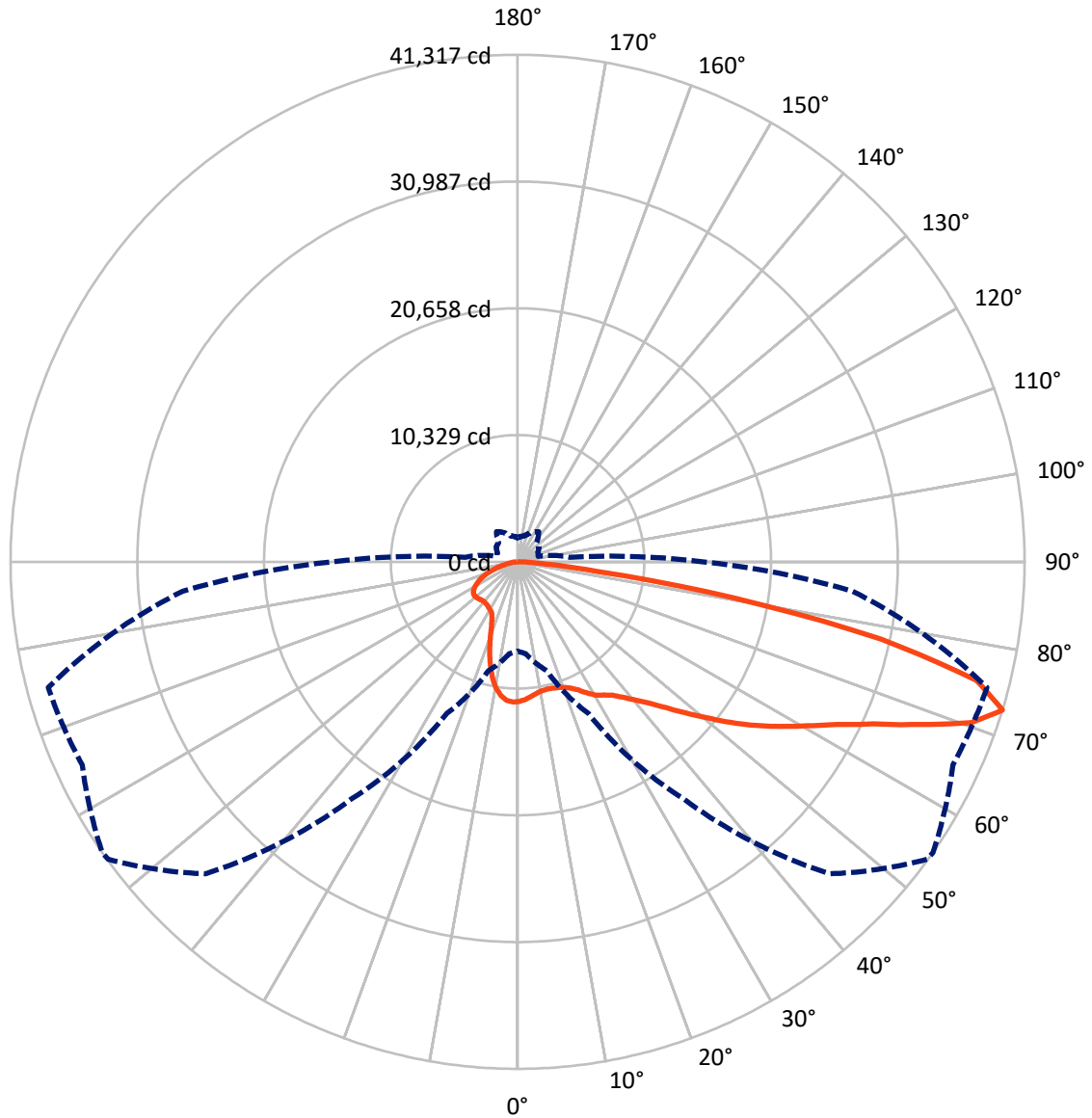
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12005.0	0.0	12005.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	52584.0	0.0	52584.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	64589.0	0.0	64589.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1030.8	1.6
10°-20°	2744.5	4.2
20°-30°	4525.0	7.0
30°-40°	6693.6	10.4
40°-50°	9342.9	14.5
50°-60°	12164.7	18.8
60°-70°	14950.1	23.1
70°-80°	11719.1	18.1
80°-90°	1418.2	2.2
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°	64589.0	100.0
0°-180°	64589.0	100.0

Coefficient of Utilization

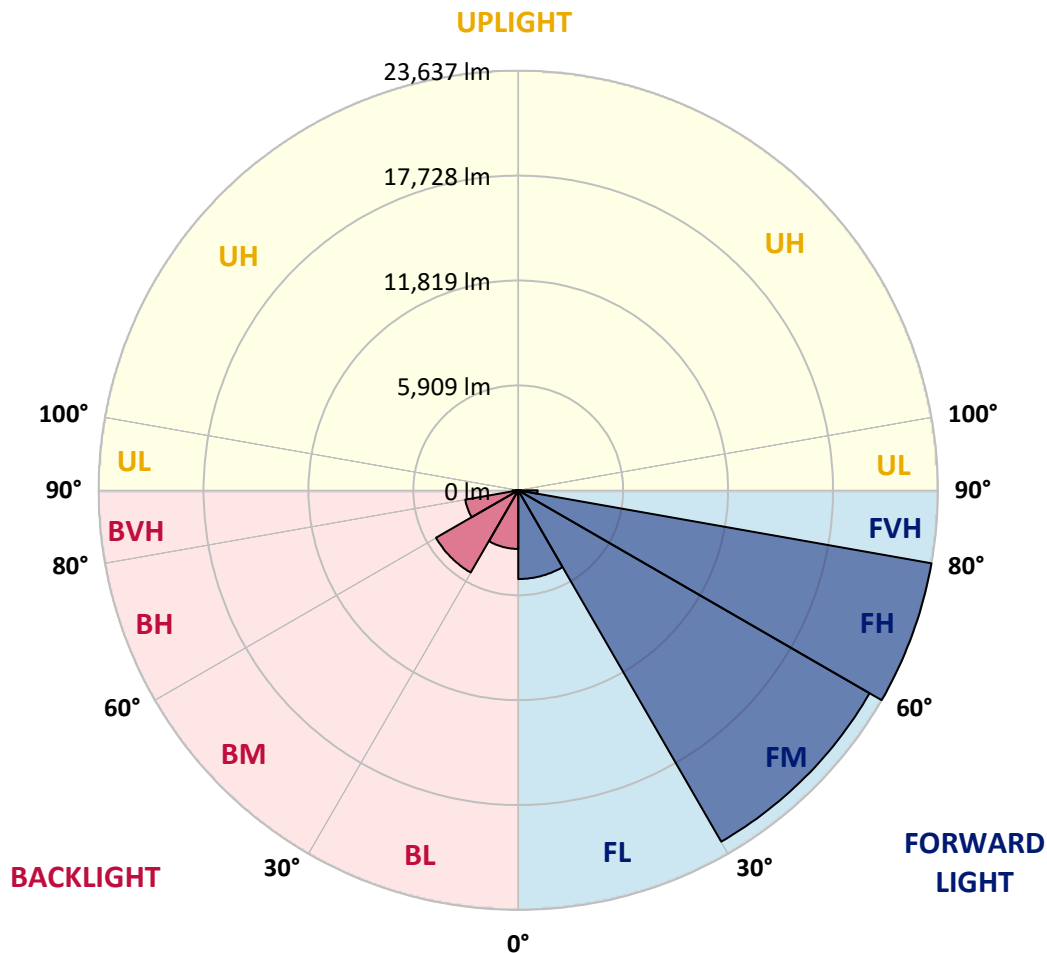


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4997.3	7.7			
FM (30°-60°)	22852.9	35.4			
FH (60°-80°)	23637.4	36.6			G5
FVH (80°-90°)	1096.5	1.7			G5
BL (0°-30°)	3303.1	5.1	B4/5000		
BM (30°-60°)	5348.4	8.3	B4/8500		
BH (60°-80°)	3031.8	4.7	B4/5000		G4/5000
BVH (80°-90°)	321.7	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	11392.1	11392.1	11392.1	11392.1	11392.1	11392.1	11392.1	11392.1	11392.1	11392.1	11392.1
2.5°	11021.2	10995.1	11027.8	11073.6	11123.8	11191.4	11230.7	11248.1	11315.8	11341.9	11398.7
5°	10510.8	10497.7	10552.2	10630.7	10742.0	10899.1	11025.6	11049.6	11228.5	11355.0	11470.6
7.5°	10139.9	10139.9	10203.2	10297.0	10421.3	10632.9	10811.8	10844.5	11147.8	11420.5	11634.3
10°	9845.4	9856.3	9930.5	10041.7	10187.9	10412.6	10650.4	10687.5	11126.0	11573.2	11913.5
12.5°	9649.0	9675.2	9742.9	9843.2	10024.3	10297.0	10598.0	10648.2	11171.8	11791.3	12249.5
15°	9773.4	9817.0	9823.6	9865.0	9965.4	10262.1	10628.6	10680.9	11269.9	12013.9	12631.2
17.5°	10318.8	10334.1	10266.4	10179.2	10131.2	10321.0	10720.2	10774.7	11387.7	12234.2	12997.7
20°	11147.8	11139.0	10992.9	10757.3	10512.9	10543.5	10870.7	10927.4	11547.0	12428.4	13364.2
22.5°	12194.9	12164.4	11939.7	11505.6	11088.9	10914.3	11134.7	11182.7	11787.0	12705.4	13756.9
25°	13464.6	13397.0	13100.3	12517.8	11904.8	11455.4	11531.7	11577.5	12136.0	13015.2	14116.9
27.5°	14804.1	14736.4	14359.0	13654.4	12838.5	12138.2	12079.3	12118.6	12533.1	13244.3	14383.0
30°	16204.6	16132.6	15788.0	14998.2	13828.9	12845.0	12589.8	12605.1	12812.3	13368.6	14601.2
32.5°	17611.7	17544.1	17158.0	16241.7	14904.4	13604.2	12958.5	12938.8	12980.3	13497.3	14847.7
35°	19038.5	19064.7	18613.1	17598.7	16095.6	14448.5	13394.8	13353.3	13261.7	13761.3	15196.8
37.5°	20565.6	20548.1	19963.5	18903.2	17341.2	15364.7	14020.9	14014.3	13698.0	14260.9	15744.3
40°	21586.5	21597.5	21241.9	20238.3	18600.0	16379.2	14823.7	14808.4	14393.9	15009.1	16462.1
42.5°	21985.8	22057.8	22149.4	21512.4	19917.6	17555.0	15781.4	15759.6	15364.7	16082.5	17306.3
45°	22014.1	22158.1	22725.3	22644.6	21252.8	18901.0	17005.3	16944.2	16660.6	17509.2	18314.2
47.5°	21769.8	21918.1	22860.6	23318.7	22446.1	20321.2	18436.4	18388.4	18144.0	19293.7	19405.0
50°	21235.3	21377.1	22581.3	23648.1	23427.8	21686.9	20085.6	19959.1	19828.2	21355.3	20652.8
52.5°	20234.0	20506.7	22208.3	23726.7	24014.6	22899.8	21820.0	21737.1	21809.1	23530.3	21902.9
55°	17862.6	18168.0	21246.2	23661.2	24448.8	23918.6	23554.3	23549.9	23923.0	25812.2	23244.5
57.5°	16534.0	16750.0	19287.2	23549.9	24963.6	24930.9	25271.2	25312.6	26039.1	28297.0	24649.5
60°	15783.6	16010.5	18294.6	23137.6	25762.1	26239.8	27023.0	27105.9	28190.1	31048.0	26340.2
62.5°	15100.8	15349.5	17679.4	22297.7	26702.3	28111.6	29121.7	29195.8	30467.7	33875.3	27974.2
65°	13933.6	14215.0	16778.4	21745.8	27557.5	30552.8	31789.7	31839.9	33083.4	36837.8	29224.2
67.5°	12284.4	12541.8	15078.9	20526.3	28190.1	33517.5	35336.9	35365.3	35677.2	38930.0	29863.4
70°	10358.1	10456.2	12657.4	18008.8	27441.9	36290.3	39224.5	39231.0	38042.1	40269.4	29758.7
72.5°	7277.7	7508.9	9188.7	13632.6	23582.7	35952.1	41242.4	41316.6	39141.6	39593.1	27380.8
75°	4463.5	4707.8	5763.7	8261.6	14961.1	28275.2	38105.3	38620.2	37080.0	35302.0	22367.5
77.5°	2984.4	3076.0	3761.0	4816.9	6778.1	16267.9	29296.2	30264.8	30803.6	25744.6	14304.5
80°	1664.5	1839.1	2493.5	2993.1	3014.9	6464.0	17565.9	17792.8	17138.3	10251.2	4413.3
82.5°	881.4	977.3	1664.5	1758.3	1644.9	2164.1	6546.9	6553.4	5475.7	2748.8	1311.1
85°	682.8	763.5	1141.0	1073.3	839.9	959.9	2159.7	2277.5	1863.1	1125.7	427.6
87.5°	340.3	423.2	774.5	680.6	329.4	274.9	772.3	824.6	735.2	440.7	154.9
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°	11392.1	11392.1	11392.1	11392.1	11392.1	11392.1	11392.1	11392.1	11392.1	11392.1	11392.1
2.5°	11420.5	11440.1	11464.1	11437.9	11429.2	11394.3	11335.4	11322.3	11291.8	11293.9	11311.4
5°	11520.8	11553.5	11540.5	11440.1	11320.1	11152.1	10977.6	10829.3	10731.1	10724.6	10718.0
7.5°	11712.8	11734.6	11632.1	11346.3	11010.3	10622.0	10255.5	9934.8	9740.7	9692.7	9681.8
10°	12013.9	12009.5	11728.1	11152.1	10482.4	9788.7	9199.6	8754.6	8495.0	8418.6	8399.0
12.5°	12349.8	12299.6	11760.8	10798.7	9736.3	8774.2	8028.1	7532.9	7262.4	7175.2	7153.3
15°	12696.7	12572.3	11680.1	10270.8	8820.0	7681.3	6898.1	6440.0	6293.8	6245.8	6237.1
17.5°	13019.6	12779.6	11448.8	9555.2	7775.1	6592.7	5981.8	5798.6	5833.5	5896.8	5898.9
20°	13335.9	12919.2	11078.0	8652.1	6673.4	5696.1	5488.8	5624.1	5789.9	5918.6	5936.0
22.5°	13647.8	13017.4	10600.2	7609.3	5687.3	5192.1	5338.3	5584.8	5774.6	5914.2	5938.2
25°	13909.6	13041.4	9941.4	6496.7	5002.3	5002.3	5266.3	5499.7	5687.3	5824.8	5848.8
27.5°	14005.6	12879.9	9012.0	5467.0	4657.6	4915.1	5165.9	5360.1	5519.3	5665.5	5691.7
30°	14042.7	12581.1	7938.7	4640.2	4515.8	4821.2	5030.7	5196.5	5347.0	5484.4	5508.4
32.5°	14049.3	12221.1	6799.9	4171.1	4417.7	4723.1	4862.7	5008.9	5170.3	5224.8	5233.6
35°	14090.7	11795.7	5600.1	3931.2	4326.0	4631.5	4742.7	4847.4	4585.6	4605.3	4622.7
37.5°	14210.7	11374.7	4596.5	3795.9	4267.1	4583.5	4716.5	4336.9	4131.9	4083.9	4077.3
40°	14435.4	10925.3	3852.6	3686.8	4245.3	4607.5	4548.6	4049.0	3695.6	3431.6	3392.3
42.5°	14747.4	10440.9	3377.1	3614.8	4260.6	4723.1	4315.1	3771.9	3185.1	3014.9	2993.1
45°	15098.6	9932.6	3119.6	3564.7	4312.9	4812.5	4267.1	3403.2	2947.3	2818.6	2807.7
47.5°	15438.9	9310.9	2986.6	3542.9	4384.9	4740.5	4064.2	3289.8	2833.8	2766.2	2772.8
50°	15829.4	8750.2	2905.8	3518.9	4448.2	4694.7	3835.2	3230.9	2790.2	2873.1	2960.4
52.5°	16158.8	8169.9	2833.8	3470.9	4472.2	4614.0	3776.3	3241.8	2790.2	2949.5	3032.4
55°	16549.3	7731.5	2750.9	3370.5	4426.4	4384.9	3734.8	3307.2	2822.9	2722.6	2731.3
57.5°	17053.3	7587.5	2659.3	3213.4	4273.7	4051.2	3715.2	3370.5	2803.3	2740.0	2761.9
60°	17751.4	7740.2	2622.2	3008.4	4035.9	3789.4	3717.4	3337.8	2665.9	2556.8	2559.0
62.5°	18416.7	7910.3	2620.1	2879.7	3743.6	3555.9	3667.2	3230.9	2596.1	2532.8	2556.8
65°	18634.9	7738.0	2515.3	2735.7	3414.1	3276.7	3575.6	3117.5	2543.7	2447.7	2443.3
67.5°	18342.6	7203.5	2303.7	2502.3	3036.7	2951.7	3455.6	2982.2	2460.8	2382.3	2369.2
70°	17474.3	6010.2	2041.9	2194.7	2607.0	2585.1	3265.8	2825.1	2349.5	2281.9	2225.2
72.5°	15137.8	4282.4	1721.3	1826.0	2122.7	2192.5	3004.0	2620.1	2192.5	2046.3	1959.0
75°	12432.7	3169.8	1413.7	1435.5	1612.2	1802.0	2644.1	2380.1	2007.0	1758.3	1690.7
77.5°	7613.6	1939.4	1125.7	1134.4	1156.2	1437.6	2177.2	2111.8	1771.4	1466.0	1418.0
80°	2465.2	1058.1	813.7	855.2	789.7	1053.7	1684.2	1797.6	1520.5	1226.0	1173.7
82.5°	938.1	617.4	549.8	578.1	547.6	706.8	1228.2	1439.8	1245.7	1007.9	820.3
85°	453.8	349.0	325.1	364.3	338.1	362.1	785.4	1060.2	944.6	656.6	610.8
87.5°	161.4	154.9	124.3	168.0	144.0	128.7	240.0	534.5	623.9	451.6	403.6
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)