

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: P319341

Luminaire Tested: **GAN-SA7D-730-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319341
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48961 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

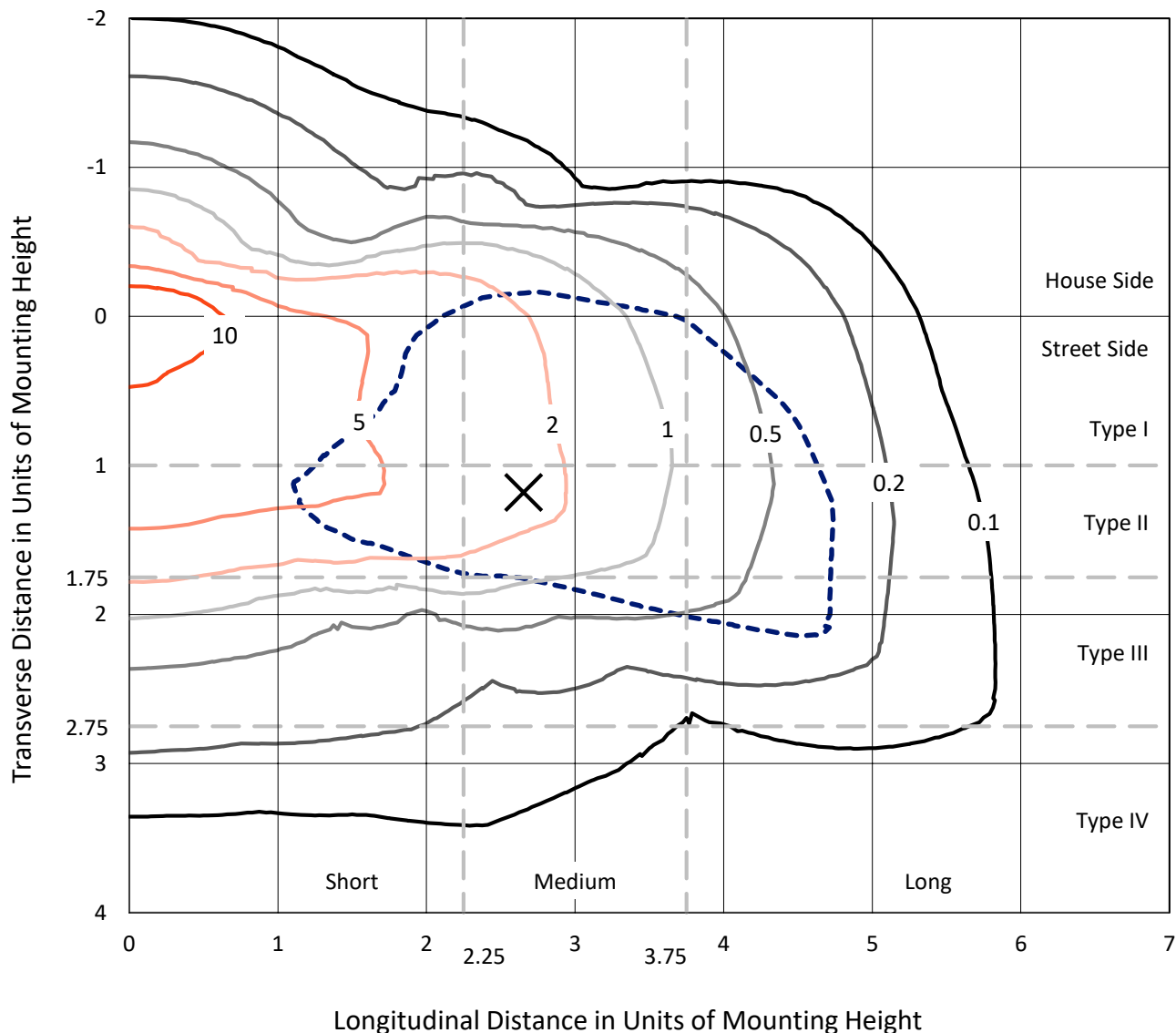
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

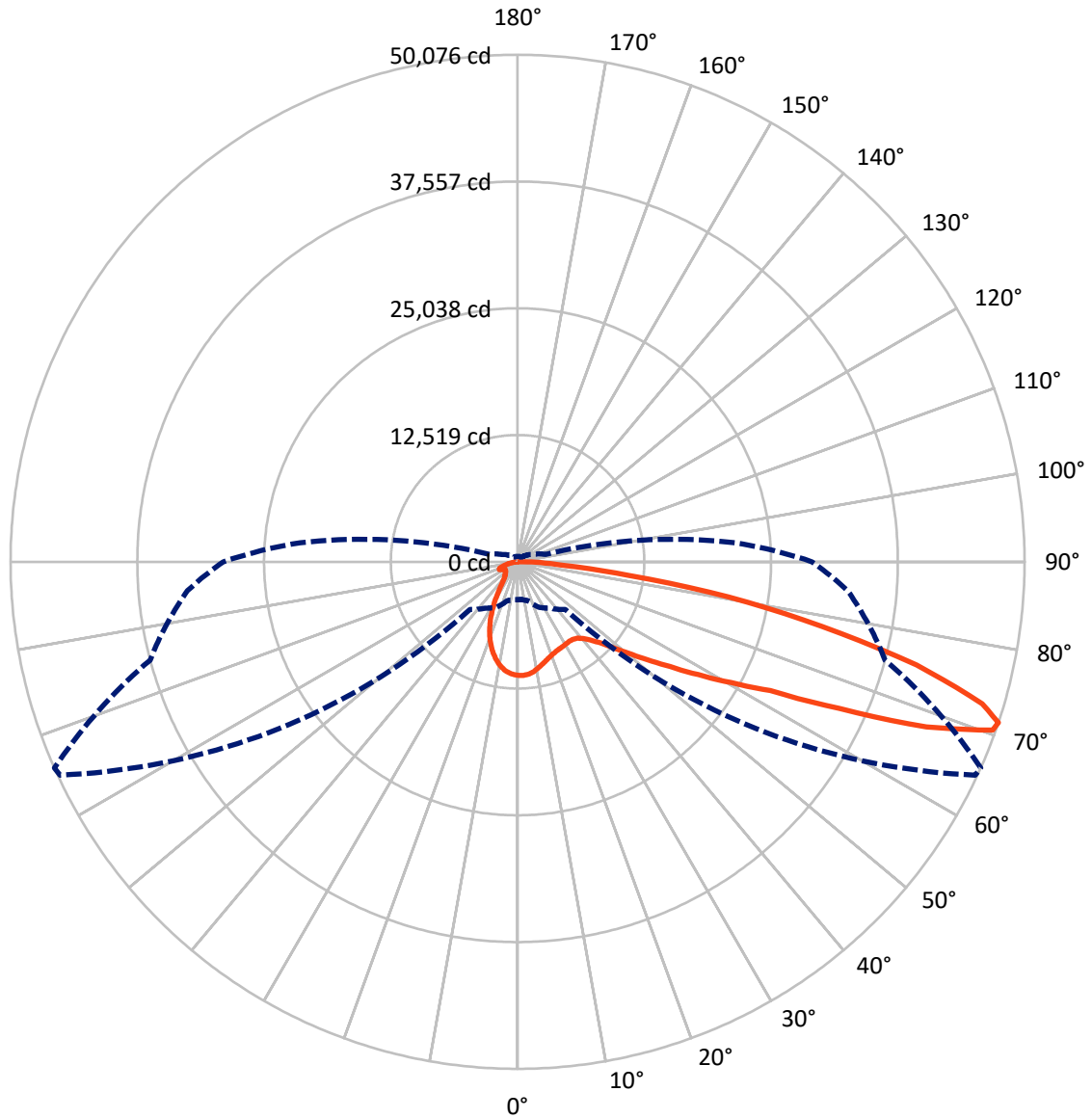
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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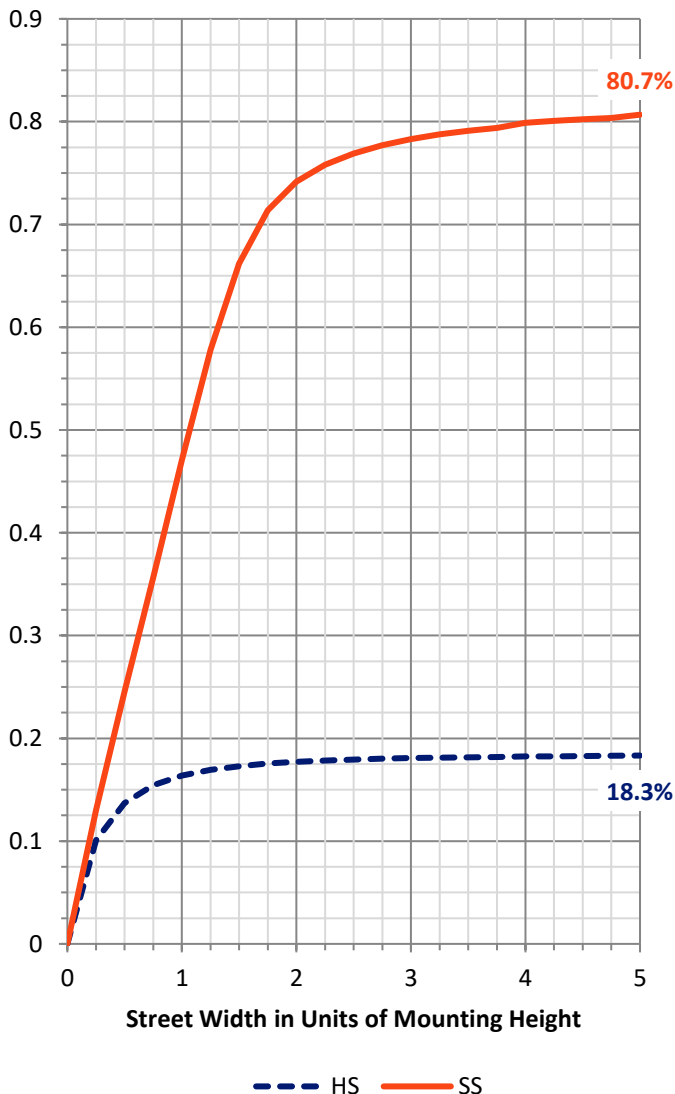
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9073.8	0.0	9073.8
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	39887.2	0.0	39887.2
	% Fixture	81.5	0.0	81.5
Total	Lumens	48961.0	0.0	48961.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	987.3	2.0
10°-20°	2367.9	4.8
20°-30°	3180.7	6.5
30°-40°	4184.2	8.5
40°-50°	6086.9	12.4
50°-60°	9508.3	19.4
60°-70°	11910.7	24.3
70°-80°	9085.2	18.6
80°-90°	1649.8	3.4
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°	48961.0	100.0
0°-180°	48961.0	100.0

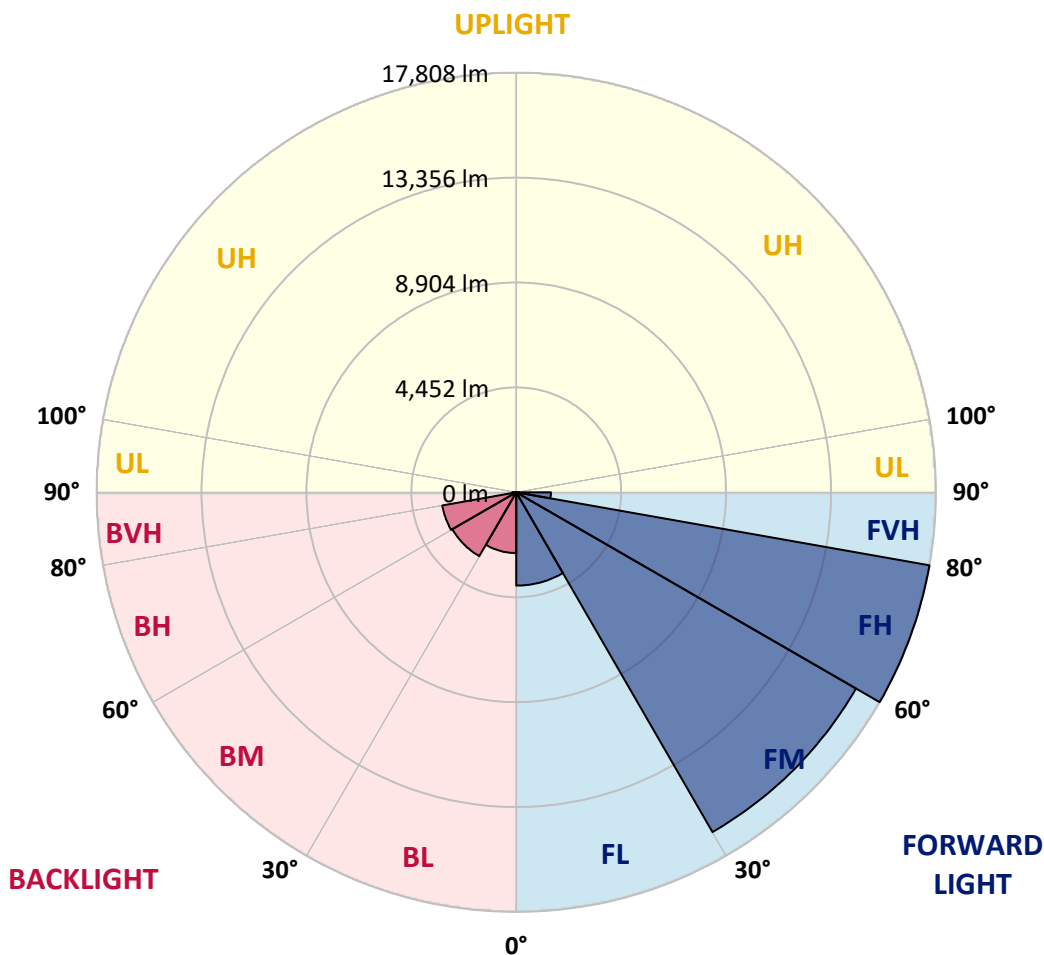


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3959.2	8.1			
FM (30°-60°)	16649.2	34.0			
FH (60°-80°)	17807.6	36.4			G5
FVH (80°-90°)	1471.2	3.0			G5
BL (0°-30°)	2576.7	5.3	B4/5000		
BM (30°-60°)	3130.2	6.4	B3/5000		
BH (60°-80°)	3188.3	6.5	B4/5000		G4/5000
BVH (80°-90°)	178.6	0.4			G2/225
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°	66°	75°	85°
0°	11216.0	11216.0	11216.0	11216.0	11216.0	11216.0	11216.0	11216.0	11216.0	11216.0	11216.0
2.5°	11008.1	10991.2	11041.9	11094.3	11114.6	11148.4	11199.1	11227.9	11226.2	11231.2	11214.3
5°	10277.8	10255.9	10357.3	10440.1	10599.0	10778.2	10996.3	11151.8	11155.2	11243.1	11266.7
7.5°	9586.4	9571.2	9687.9	9821.4	10005.7	10279.5	10632.8	10967.5	10987.8	11226.2	11309.0
10°	9032.0	9028.6	9141.9	9287.2	9501.9	9807.9	10213.6	10703.8	10734.2	11145.0	11315.8
12.5°	8599.2	8606.0	8704.0	8869.7	9096.2	9415.7	9855.2	10408.0	10457.0	11016.5	11276.9
15°	8279.7	8306.8	8386.2	8553.6	8776.7	9101.3	9552.6	10134.1	10208.5	10872.9	11254.9
17.5°	8097.2	8127.6	8183.4	8322.0	8531.6	8844.3	9272.0	9909.3	9976.9	10763.0	11256.6
20°	8043.1	8068.4	8100.6	8185.1	8362.6	8646.6	9050.6	9706.5	9779.1	10675.1	11273.5
22.5°	8149.6	8168.2	8171.5	8164.8	8273.0	8504.6	8890.0	9557.7	9635.5	10617.6	11285.3
25°	8377.8	8403.1	8384.5	8322.0	8286.5	8428.5	8807.2	9459.7	9537.4	10575.3	11261.7
27.5°	8720.9	8724.3	8709.1	8628.0	8460.6	8436.9	8781.8	9402.2	9476.6	10526.3	11212.6
30°	9187.5	9209.5	9182.4	9072.5	8798.7	8572.2	8812.2	9346.4	9414.0	10463.8	11133.2
32.5°	9733.5	9787.6	9785.9	9671.0	9278.8	8874.8	8937.3	9312.6	9365.0	10397.8	11036.8
35°	10299.8	10374.2	10512.8	10463.8	9978.6	9353.2	9177.4	9366.7	9402.2	10389.4	10969.2
37.5°	10888.1	10962.5	11248.1	11380.0	10812.0	10037.8	9556.0	9557.7	9574.6	10492.5	10964.1
40°	11503.4	11582.8	12012.2	12355.4	11892.2	10905.0	10166.3	9956.6	9938.1	10746.1	11063.9
42.5°	12365.5	12436.5	12952.1	13389.9	13090.7	12015.6	11009.8	10572.0	10533.1	11243.1	11383.4
45°	13455.8	13516.7	14064.4	14532.6	14378.8	13283.4	12069.7	11418.9	11412.1	12071.4	12030.8
47.5°	14752.4	14799.7	15291.6	15744.7	15800.5	14742.3	13401.7	12725.6	12615.7	13207.3	13033.2
50°	16103.1	16155.5	16490.2	16977.0	17391.2	16694.7	15115.8	14326.4	14179.3	14706.8	14453.2
52.5°	16997.3	17066.6	17357.4	17974.4	19179.6	18834.8	17142.7	16267.0	16043.9	16524.0	16329.6
55°	16598.4	16753.9	17198.5	18187.4	20609.7	22104.1	19642.8	18530.5	18278.6	18677.6	18562.6
57.5°	14784.5	14997.5	15604.4	17130.8	20810.9	24984.6	23422.6	21196.3	21018.8	20903.9	20956.3
60°	11469.6	11674.1	12426.4	14416.0	19409.5	27087.5	29110.9	24482.5	24225.6	23138.6	23186.0
62.5°	8117.5	8014.3	8529.9	9985.4	15771.7	27334.3	35583.6	28877.7	28032.4	25498.5	25290.6
65°	6190.4	6166.7	6398.3	6861.5	9552.6	24381.1	39439.5	36264.8	34944.6	28274.2	27783.9
67.5°	5086.5	5044.2	5272.5	5946.9	6151.5	15729.5	39524.0	44835.3	43538.8	31729.4	30667.8
70°	4182.1	4134.8	4347.8	5218.4	5684.9	7977.1	33264.3	49854.2	49784.9	36104.2	32845.1
71°	3749.4	3715.6	3970.8	4937.8	5585.2	6648.5	28720.4	49867.7	50075.7	37585.1	32716.6
72.5°	3052.9	3064.8	3335.2	4395.1	5510.8	5870.9	21108.4	47543.4	47982.9	38996.6	31548.5
75°	2028.5	2038.7	2393.7	3380.9	5343.5	5744.1	11601.4	39894.2	40702.2	38151.4	28788.1
77.5°	1362.5	1359.1	1600.8	2319.3	4655.5	5744.1	6802.3	29837.8	30725.3	30356.8	22193.7
80°	938.2	931.4	1102.2	1600.8	3524.6	5813.4	5258.9	20910.6	21179.4	16393.8	9020.1
82.5°	574.7	579.8	720.1	1130.9	2398.7	5231.9	4964.8	11402.0	11109.5	4598.0	2253.3
85°	329.6	327.9	459.8	765.8	1540.0	4415.4	4841.4	4907.3	4501.6	1384.5	814.8
87.5°	118.3	126.8	246.8	424.3	882.4	3074.9	4107.8	2552.6	2300.7	625.5	368.5
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°	11216.0	11216.0	11216.0	11216.0	11216.0	11216.0	11216.0	11216.0	11216.0	11216.0	11216.0
2.5°	11202.5	11212.6	11200.8	11133.2	11075.7	10982.7	10930.3	10857.6	10835.7	10825.5	10852.6
5°	11244.8	11248.1	11148.4	10970.9	10771.4	10536.5	10367.4	10159.5	10061.5	10019.2	10046.2
7.5°	11283.6	11268.4	11050.4	10710.6	10342.1	9933.0	9569.5	9236.5	9042.1	8962.7	8969.4
10°	11288.7	11224.5	10874.5	10348.8	9777.5	9177.4	8619.5	8105.6	7781.1	7569.8	7634.0
12.5°	11236.3	11128.1	10615.9	9880.6	9087.8	8269.6	7515.7	6744.8	6281.6	6067.0	6073.7
15°	11195.7	10999.6	10298.1	9329.5	8264.5	7181.0	6151.5	5245.4	4751.8	4532.0	4428.9
17.5°	11161.9	10861.0	9929.6	8709.1	7292.5	5918.2	4680.8	3872.8	3602.3	3538.1	3511.0
20°	11114.6	10714.0	9518.8	7990.7	6185.3	4505.0	3418.1	3019.1	3020.8	3095.2	3105.3
22.5°	11048.7	10546.6	9081.0	7184.3	4996.9	3281.1	2679.3	2564.4	2681.0	2823.0	2848.4
25°	10950.6	10348.8	8594.2	6293.5	3810.2	2522.1	2288.8	2283.8	2425.8	2574.5	2596.5
27.5°	10812.0	10090.2	8053.2	5336.7	2807.8	2143.5	2050.5	2086.0	2190.8	2299.0	2307.4
30°	10626.1	9789.3	7456.5	4327.5	2200.9	1908.5	1898.4	1930.5	1994.7	2070.8	2077.5
32.5°	10421.5	9483.3	6819.2	3350.4	1884.8	1781.7	1791.9	1807.1	1837.5	1867.9	1874.7
35°	10235.6	9170.6	6166.7	2545.8	1734.4	1698.9	1692.1	1688.7	1692.1	1682.0	1683.7
37.5°	10115.5	8912.0	5487.1	2026.8	1648.2	1626.2	1605.9	1580.6	1551.8	1534.9	1538.3
40°	10071.6	8719.2	4799.1	1751.3	1577.2	1562.0	1523.1	1469.0	1435.2	1425.0	1425.0
42.5°	10189.9	8619.5	4134.8	1612.7	1518.0	1492.7	1428.4	1365.9	1340.5	1338.8	1337.1
45°	10551.7	8660.1	3502.6	1536.6	1463.9	1414.9	1330.4	1278.0	1261.1	1264.4	1262.8
47.5°	11200.8	8915.3	2961.6	1485.9	1409.8	1345.6	1250.9	1208.7	1188.4	1188.4	1190.1
50°	12304.7	9512.1	2530.6	1443.6	1364.2	1281.3	1193.4	1141.0	1114.0	1112.3	1112.3
52.5°	13912.3	10580.4	2261.8	1408.1	1313.5	1223.9	1136.0	1070.0	1037.9	1031.2	1027.8
55°	15927.3	12111.9	2187.4	1384.5	1245.8	1161.3	1066.7	1000.7	965.2	950.0	948.3
57.5°	18180.6	13974.8	2334.5	1355.7	1176.5	1086.9	990.6	928.0	890.9	872.3	870.6
60°	20461.0	16008.4	2934.6	1315.2	1119.1	1005.8	912.8	855.4	818.2	797.9	794.5
62.5°	22744.8	18151.9	4160.2	1311.8	1078.5	928.0	833.4	784.4	748.9	726.9	721.8
65°	25321.0	20498.2	5553.1	1401.4	1065.0	857.0	752.2	713.4	682.9	662.6	661.0
67.5°	28279.2	23147.1	5419.5	1585.6	1110.6	792.8	676.2	645.7	623.8	606.9	605.2
70°	29667.1	22732.9	3369.0	1715.8	1174.9	730.3	603.5	581.5	564.6	552.8	547.7
71°	29085.6	21585.1	2824.7	1700.6	1168.1	703.2	574.7	557.8	540.9	530.8	525.7
72.5°	27499.9	19685.1	2356.5	1582.2	1092.0	654.2	537.6	520.7	505.4	493.6	490.2
75°	24676.9	17580.5	1886.5	1264.4	870.6	552.8	471.6	453.0	441.2	434.4	427.7
77.5°	18140.0	12546.4	1458.8	999.0	640.7	451.3	402.3	388.8	377.0	366.8	361.8
80°	6949.4	4860.0	982.1	745.5	469.9	356.7	324.6	317.8	306.0	299.2	299.2
82.5°	1871.3	1452.1	524.0	451.3	314.4	260.3	248.5	245.1	235.0	221.4	223.1
85°	757.3	640.7	294.1	248.5	192.7	153.8	167.4	169.0	157.2	140.3	142.0
87.5°	333.0	272.2	164.0	109.9	84.5	59.2	76.1	76.1	69.3	57.5	52.4
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)