

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: McGRAW-EDISON

Report Number: P383259

Luminaire Tested: **GLEON-SA5D-735-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383259
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: McGRAW-EDISON
Catalog Number: GLEON-SA5D-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35451 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

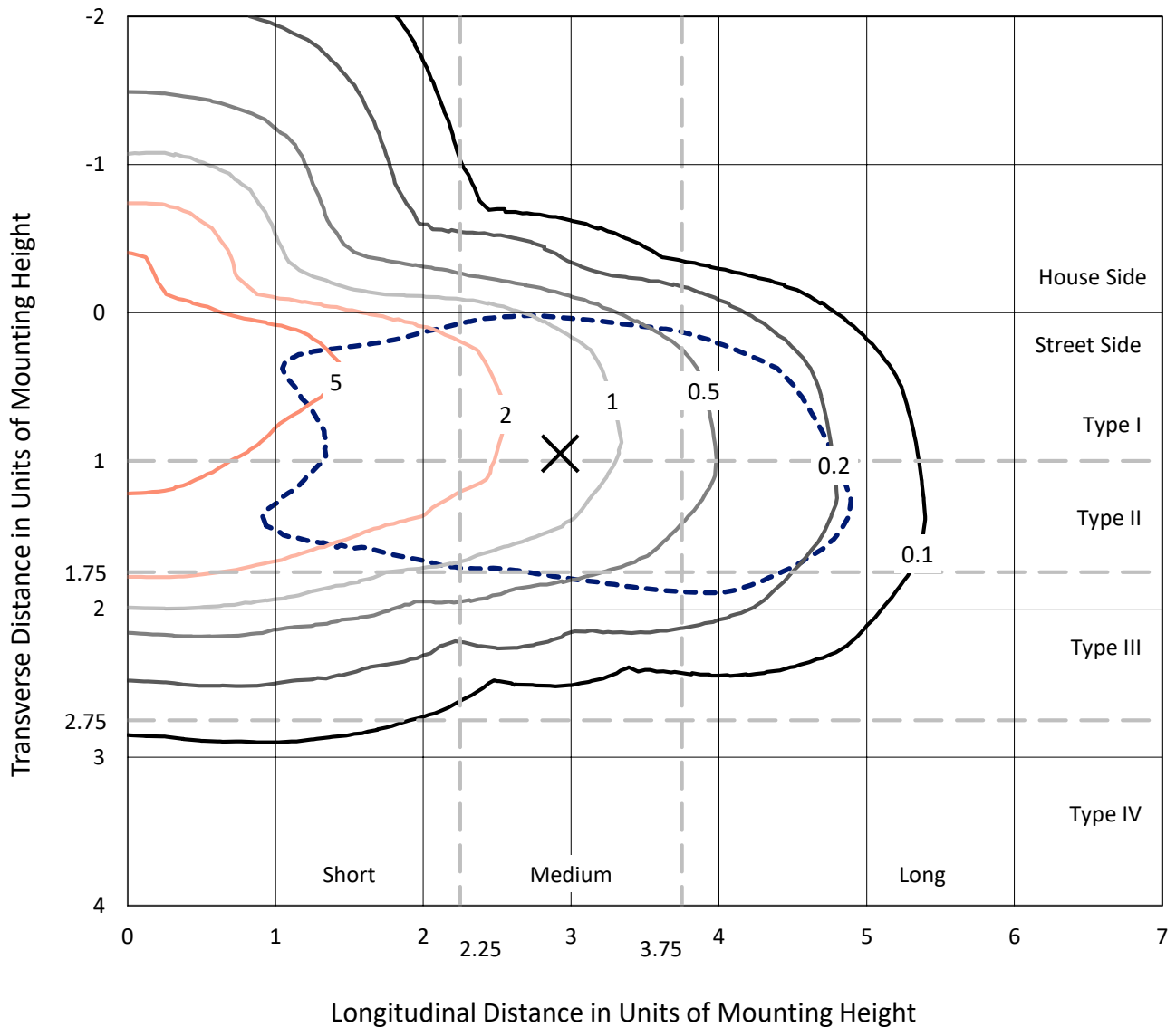
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

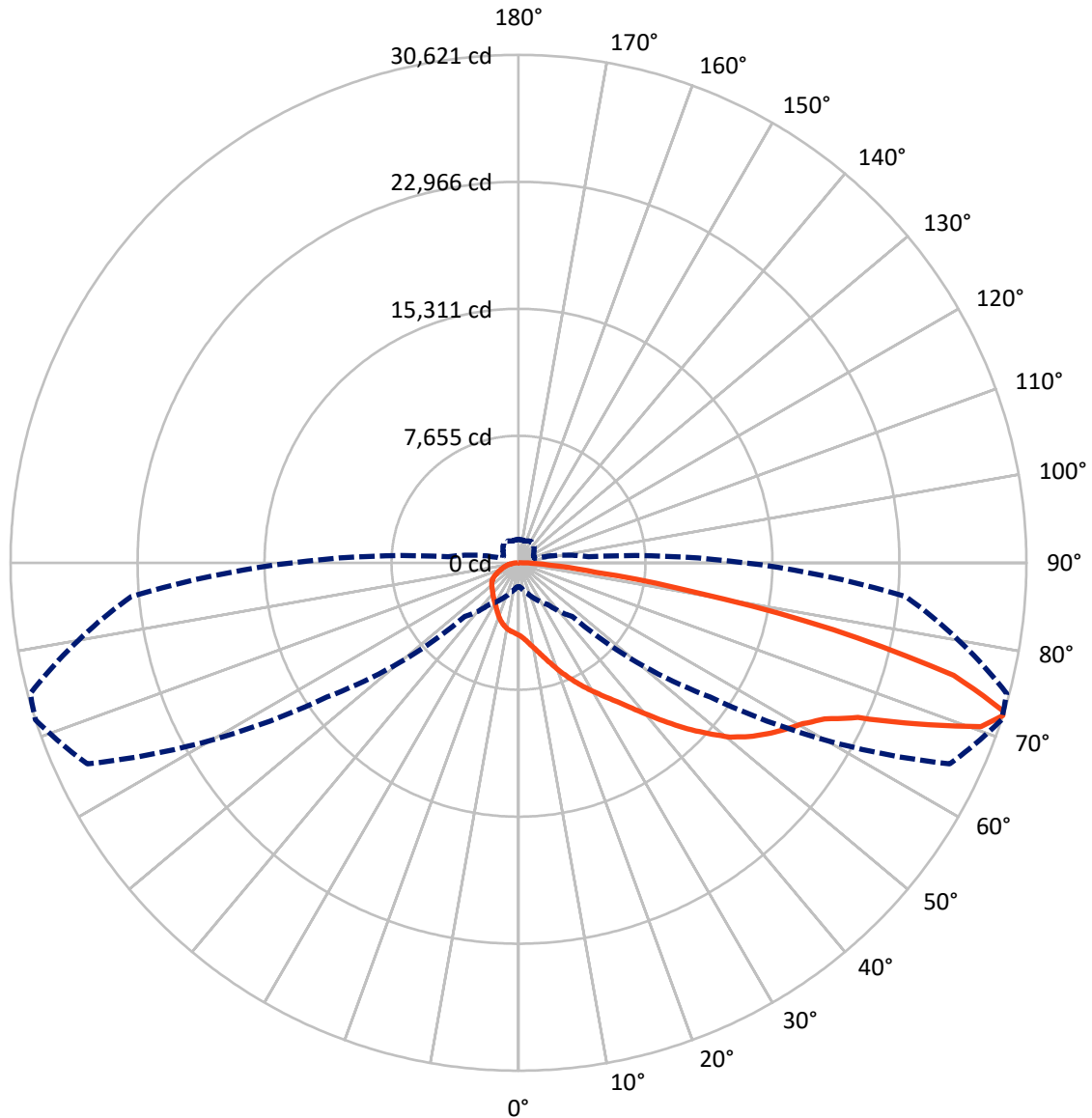
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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	6576.4	0.0	6576.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	28874.6	0.0	28874.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	35451.0	0.0	35451.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.0	1.2
10°-20°	1412.3	4.0
20°-30°	2474.7	7.0
30°-40°	3669.2	10.4
40°-50°	5366.5	15.1
50°-60°	7384.3	20.8
60°-70°	8220.9	23.2
70°-80°	5570.5	15.7
80°-90°	915.5	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°	35451.0	100.0
0°-180°	35451.0	100.0

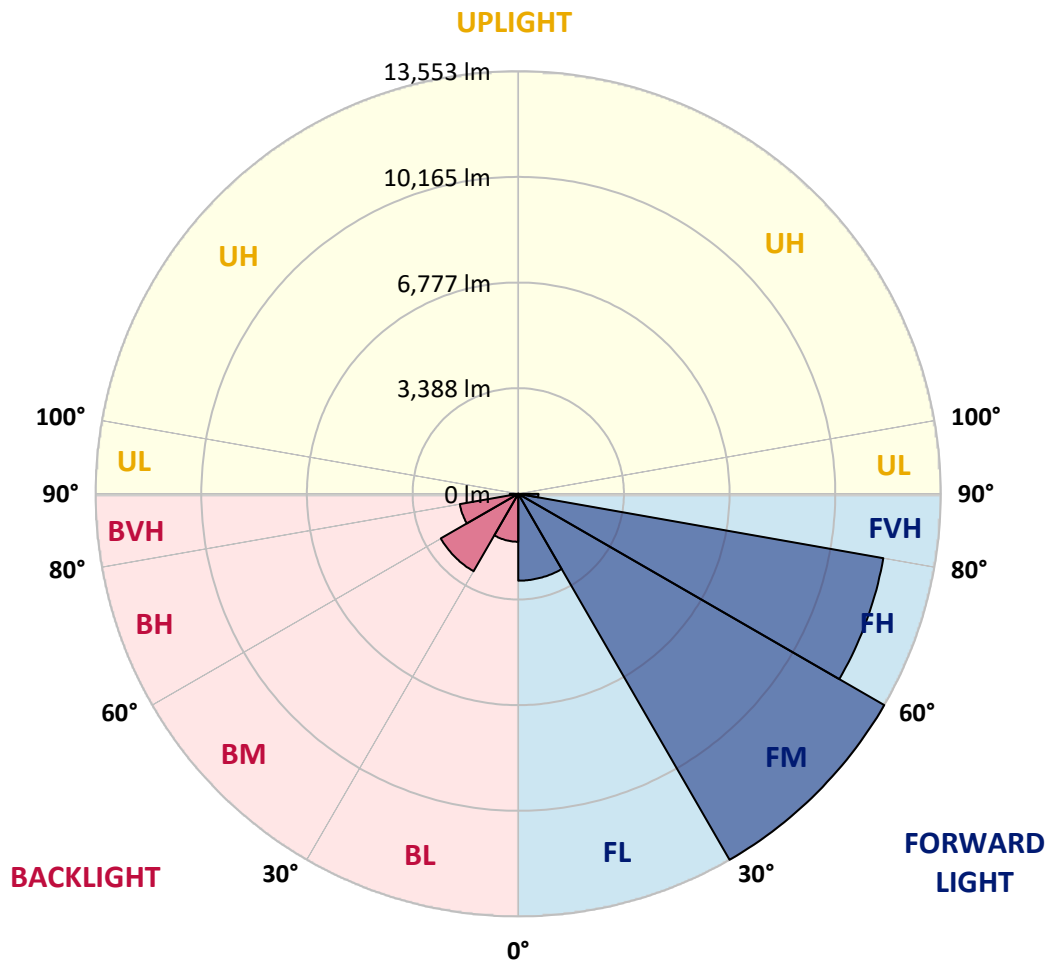


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2786.7	7.9			
FM (30°-60°)	13553.3	38.2			
FH (60°-80°)	11888.8	33.5			G4/12000
FVH (80°-90°)	645.8	1.8			G4/750
BL (0°-30°)	1537.3	4.3	B3/2500		
BM (30°-60°)	2866.7	8.1	B3/5000		
BH (60°-80°)	1902.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	269.7	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4361.4	4361.4	4361.4	4361.4	4361.4	4361.4	4361.4	4361.4	4361.4	4361.4	4361.4
2.5°	4818.0	4810.6	4785.0	4785.0	4736.2	4694.6	4616.5	4564.0	4501.8	4479.8	4406.6
5°	5284.2	5286.6	5255.0	5233.0	5161.0	5073.0	4940.0	4819.2	4698.3	4649.4	4499.4
7.5°	5676.0	5671.2	5662.6	5644.3	5577.2	5486.8	5307.4	5128.0	4949.8	4876.5	4617.8
10°	5927.5	5938.5	5945.8	5954.4	5926.2	5861.6	5691.9	5473.4	5240.2	5140.2	4759.4
12.5°	6054.4	6074.0	6108.2	6166.8	6213.1	6205.8	6082.5	5850.6	5573.5	5447.8	4936.4
15°	6128.9	6154.5	6208.2	6313.2	6443.8	6518.3	6485.3	6275.4	5966.6	5811.6	5152.4
17.5°	6175.3	6196.0	6279.0	6419.4	6613.5	6811.3	6897.9	6722.1	6410.9	6233.9	5400.2
20°	6207.0	6222.9	6326.6	6491.4	6742.9	7057.8	7299.5	7255.5	6900.3	6670.9	5659.0
22.5°	6277.8	6291.2	6390.1	6556.1	6834.5	7240.9	7686.5	7752.3	7416.7	7156.7	5936.0
25°	6475.6	6475.6	6558.6	6674.5	6935.7	7399.6	8013.5	8305.3	7944.1	7641.3	6192.4
27.5°	6852.7	6849.1	6879.6	6919.9	7117.7	7560.7	8305.3	8793.6	8490.9	8160.1	6441.4
30°	7299.5	7323.9	7327.6	7308.1	7400.9	7762.1	8575.1	9308.7	9041.4	8684.9	6696.5
32.5°	7874.5	7890.3	7871.9	7807.3	7793.9	8047.7	8840.0	9848.2	9637.0	9233.0	6929.7
35°	8604.4	8573.9	8516.5	8384.7	8258.9	8429.9	9142.7	10387.8	10306.0	9895.8	7250.7
37.5°	9386.8	9388.0	9317.2	9018.2	8844.9	8918.1	9560.2	10999.3	11115.2	10684.4	7662.1
40°	10014.2	10047.2	10091.2	9698.1	9473.5	9574.8	10091.2	11708.5	12072.3	11619.4	8197.9
42.5°	10452.4	10490.3	10614.8	10368.2	10135.1	10323.0	10716.2	12465.3	13146.5	12698.5	8825.3
45°	10916.3	10937.0	11025.0	10918.8	10769.8	11193.4	11420.4	13248.9	14282.9	13848.3	9527.2
47.5°	11404.6	11426.5	11516.9	11446.1	11368.0	12006.3	12155.3	13987.5	15371.7	15111.7	10276.6
50°	12007.6	12022.2	12107.7	11979.5	12003.9	12619.1	12811.9	14664.9	16513.0	16246.9	11028.6
52.5°	12830.3	12833.9	12952.3	12836.4	12721.7	13068.3	13377.1	15303.4	17407.7	17282.0	11780.5
55°	13474.8	13513.9	13902.0	13877.6	13811.7	13476.0	13849.5	15911.2	18206.1	18265.9	12578.9
57.5°	13063.5	13216.1	14002.1	14556.3	15095.8	14490.4	14487.9	16596.0	18948.2	19231.4	13456.5
60°	11441.2	11648.7	12807.1	14036.3	15724.4	16255.4	15813.6	17432.1	19697.7	20188.4	14556.3
62.5°	8171.1	8512.9	10082.6	12045.4	14862.7	17424.8	18511.2	18759.0	20717.0	21296.8	15985.6
65°	4130.7	4389.5	5705.4	8069.7	11874.5	16660.7	21443.2	21664.2	22488.1	23003.2	18186.5
67.5°	2509.7	2607.3	3249.4	4488.4	7280.0	12977.9	22400.2	26506.5	25915.7	26189.2	21324.8
70°	1849.3	1921.3	2321.7	2980.9	4186.8	7615.7	19463.3	29962.2	29574.0	29543.5	23644.1
72°	1440.4	1492.9	1846.9	2408.3	3061.4	4568.9	14107.1	28686.5	30621.3	30467.5	23431.7
72.5°	1365.9	1412.3	1734.5	2266.7	2892.9	4141.7	12683.8	27826.0	30545.6	30476.0	23157.1
75°	1075.4	1108.4	1284.1	1752.9	2264.3	2349.7	6950.4	21564.0	27097.3	28223.9	20828.0
77.5°	889.8	894.8	987.5	1275.6	1765.1	1661.3	3414.1	14961.6	19403.5	20642.4	14754.0
80°	725.0	731.2	775.1	894.8	1335.4	1229.2	1621.0	8603.1	10863.8	10877.2	7016.3
82.5°	577.4	578.6	627.4	654.2	959.4	878.9	928.9	4039.1	4747.2	4566.4	2521.9
85°	406.4	398.0	612.8	537.1	627.4	564.0	512.6	1599.1	1962.8	1877.3	789.8
87.5°	135.4	140.4	272.2	347.8	366.2	319.8	228.2	612.8	741.0	734.8	250.2
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°	4361.4	4361.4	4361.4	4361.4	4361.4	4361.4	4361.4	4361.4	4361.4	4361.4	4361.4
2.5°	4383.4	4344.3	4286.9	4223.5	4173.4	4122.2	4084.3	4064.8	4042.8	4024.5	4046.5
5°	4429.8	4356.5	4234.4	4114.8	4026.9	3948.8	3892.7	3863.4	3836.5	3818.2	3820.6
7.5°	4505.4	4387.0	4182.0	4007.4	3885.3	3801.1	3743.7	3724.2	3707.1	3702.2	3708.3
10°	4586.0	4411.4	4112.4	3880.5	3741.3	3671.7	3646.1	3659.5	3671.7	3682.7	3694.9
12.5°	4677.6	4433.4	4011.1	3731.5	3613.1	3586.3	3611.9	3670.5	3713.2	3738.9	3754.7
15°	4797.2	4453.0	3893.9	3582.6	3503.3	3533.8	3620.5	3721.8	3796.2	3843.8	3851.2
17.5°	4907.0	4451.7	3743.7	3432.5	3414.1	3503.3	3633.9	3776.7	3876.8	3943.9	3957.4
20°	5020.6	4418.8	3569.2	3286.0	3323.9	3470.3	3640.0	3812.1	3932.9	4011.1	4029.4
22.5°	5126.8	4361.4	3377.5	3152.9	3248.1	3426.4	3616.8	3791.3	3912.2	3975.7	3995.2
25°	5198.8	4261.3	3183.5	3040.7	3181.0	3372.7	3541.1	3681.5	3771.8	3803.6	3808.4
27.5°	5235.4	4130.7	3000.3	2943.0	3111.5	3284.8	3400.7	3470.3	3495.9	3493.5	3488.6
30°	5240.2	3958.6	2842.9	2863.7	3030.9	3155.4	3210.3	3196.9	3163.9	3107.8	3112.7
32.5°	5224.4	3764.5	2711.1	2787.9	2928.3	2997.9	3000.3	2935.7	2847.7	2758.7	2734.3
35°	5229.2	3574.1	2595.1	2702.5	2803.9	2834.3	2806.3	2711.1	2591.5	2476.7	2452.3
37.5°	5283.0	3408.1	2495.1	2603.7	2665.9	2673.3	2632.9	2532.9	2444.9	2332.7	2322.9
40°	5411.2	3289.7	2399.8	2492.5	2527.9	2531.7	2474.3	2403.5	2410.8	2350.9	2349.7
42.5°	5641.8	3238.4	2315.5	2376.7	2398.5	2405.9	2361.9	2316.8	2380.3	2341.3	2327.8
45°	5939.7	3250.6	2244.8	2263.1	2303.3	2337.5	2310.7	2255.7	2280.1	2110.5	2054.3
47.5°	6283.9	3328.7	2188.7	2165.5	2235.1	2299.7	2258.2	2175.2	2088.5	1920.1	1888.3
50°	6686.7	3449.5	2137.3	2069.0	2160.5	2248.5	2206.9	2088.5	1957.9	1876.1	1865.1
52.5°	7106.7	3597.3	2086.1	1962.8	2066.5	2209.4	2188.7	2069.0	1907.9	1827.3	1812.7
55°	7582.7	3746.2	2021.4	1839.5	1965.3	2191.1	2180.1	1998.2	1870.1	1824.9	1813.9
57.5°	8174.7	3915.9	1935.9	1711.3	1870.1	2125.1	2091.0	1955.5	1831.0	1796.8	1793.1
60°	8946.2	4166.1	1812.7	1574.7	1754.1	2023.9	2016.5	1893.3	1768.7	1744.3	1739.4
62.5°	10103.4	4579.9	1643.0	1437.9	1624.7	1851.7	1918.9	1809.0	1702.8	1701.6	1704.0
65°	11897.7	5202.4	1458.7	1318.3	1494.1	1706.5	1805.3	1722.3	1635.7	1660.1	1663.7
67.5°	13977.7	5718.8	1278.0	1201.1	1361.0	1568.5	1702.8	1635.7	1546.6	1610.1	1611.3
70°	14669.8	5257.4	1119.3	1085.2	1223.1	1435.5	1591.7	1540.5	1450.1	1513.6	1507.5
72°	13651.8	4244.2	1016.8	997.3	1119.3	1325.6	1492.9	1451.4	1362.3	1405.0	1389.1
72.5°	13330.7	4046.5	991.2	975.3	1091.3	1297.6	1467.2	1429.4	1340.3	1376.9	1362.3
75°	11891.6	3514.3	852.0	855.7	952.1	1160.8	1323.2	1311.0	1219.4	1223.1	1218.2
77.5°	8625.1	2576.8	717.8	742.2	810.5	1020.5	1177.9	1170.6	1070.5	1052.2	1048.5
80°	4002.5	1314.6	584.7	595.7	666.5	853.2	1004.6	994.8	914.3	891.1	877.6
82.5°	1370.8	625.0	439.4	446.8	516.4	687.2	871.6	865.4	798.3	753.2	725.0
85°	489.5	311.2	307.6	300.2	368.6	540.8	759.2	726.3	627.4	534.6	532.2
87.5°	158.6	133.0	158.6	157.4	214.8	366.2	551.8	470.0	455.3	378.4	371.0
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)