

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: P383203

Luminaire Tested: **GLEON-SA5B-735-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383203
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-SA5B-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26110.4 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

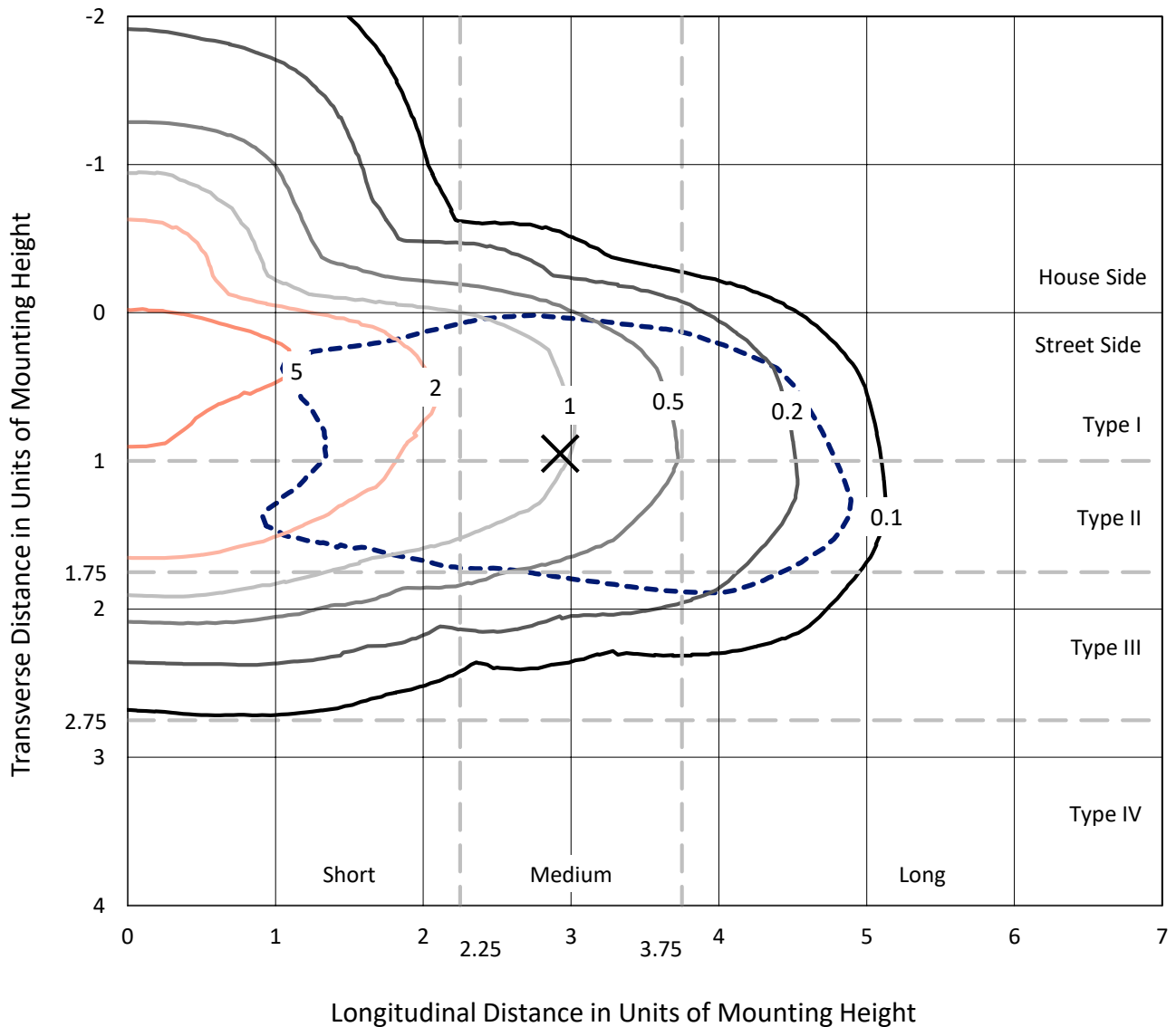
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

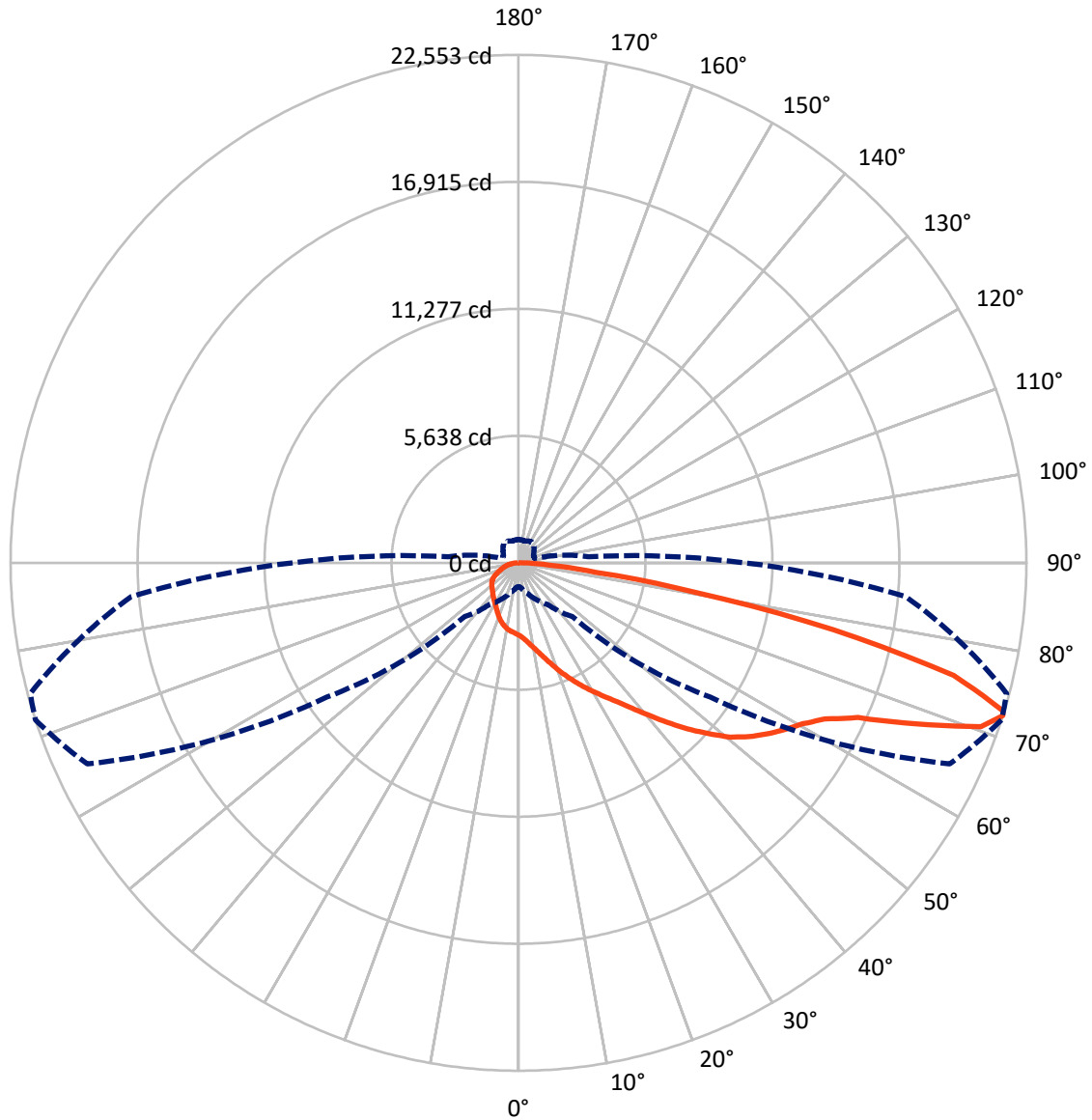
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	4843.7	0.0	4843.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	21266.7	0.0	21266.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	26110.4	0.0	26110.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.9	1.2
10°-20°	1040.2	4.0
20°-30°	1822.7	7.0
30°-40°	2702.5	10.4
40°-50°	3952.6	15.1
50°-60°	5438.7	20.8
60°-70°	6054.9	23.2
70°-80°	4102.8	15.7
80°-90°	674.3	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°	26110.4	100.0
0°-180°	26110.4	100.0

Coefficient of Utilization

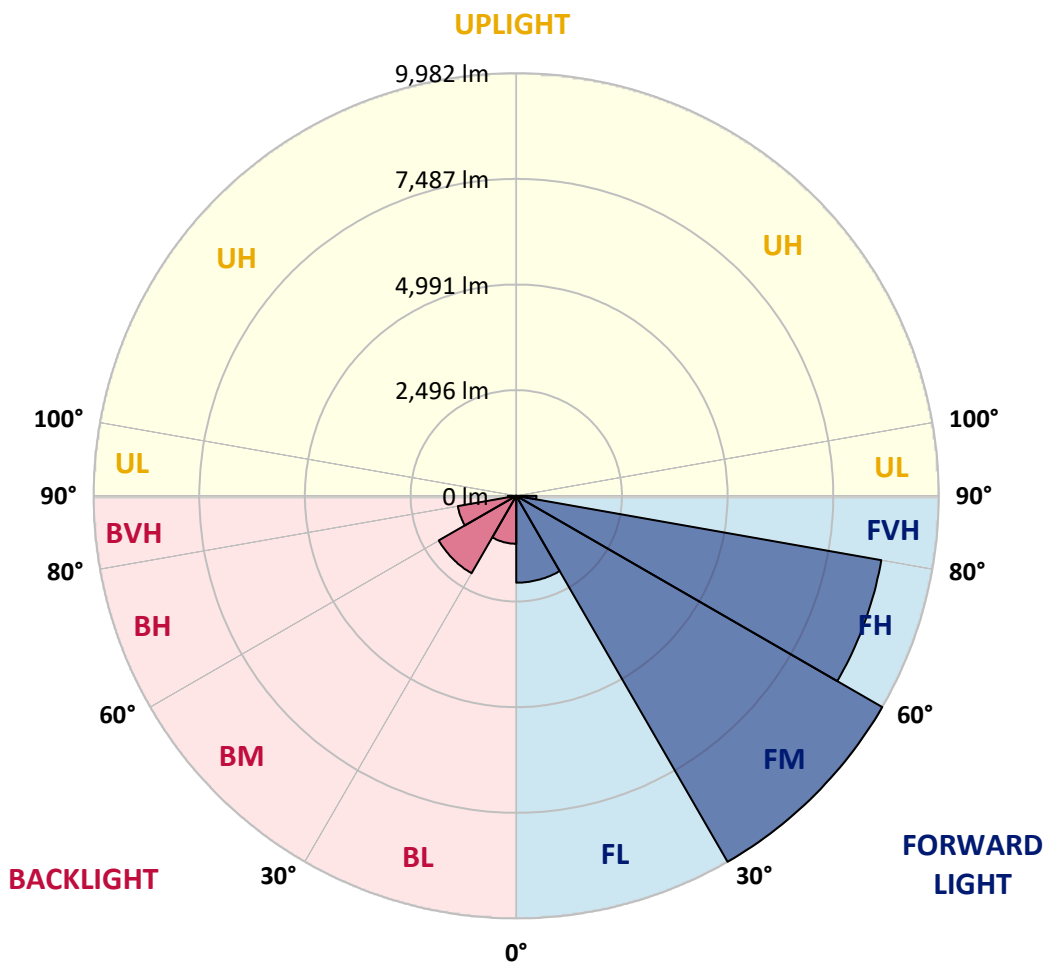


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2052.4	7.9			
FM (30°-60°)	9982.3	38.2			
FH (60°-80°)	8756.3	33.5			G4/12000
FVH (80°-90°)	475.7	1.8			G3/500
BL (0°-30°)	1132.3	4.3	B3/2500		
BM (30°-60°)	2111.4	8.1	B2/2500		
BH (60°-80°)	1401.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	198.7	0.8			G2/225
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°	3212.3	3212.3	3212.3	3212.3	3212.3	3212.3	3212.3	3212.3	3212.3	3212.3	3212.3
2.5°	3548.5	3543.1	3524.2	3524.2	3488.3	3457.7	3400.1	3361.5	3315.7	3299.4	3245.5
5°	3891.9	3893.7	3870.4	3854.2	3801.1	3736.4	3638.4	3549.4	3460.4	3424.5	3313.9
7.5°	4180.5	4176.9	4170.6	4157.1	4107.7	4041.1	3909.0	3776.9	3645.6	3591.7	3401.1
10°	4365.7	4373.8	4379.2	4385.5	4364.9	4317.2	4192.2	4031.3	3859.6	3785.8	3505.3
12.5°	4459.2	4473.6	4498.8	4541.9	4576.1	4570.7	4479.9	4309.1	4105.0	4012.4	3635.7
15°	4514.1	4532.9	4572.5	4649.8	4746.0	4800.8	4776.6	4622.0	4394.5	4280.3	3794.8
17.5°	4548.2	4563.5	4624.7	4728.1	4871.0	5016.7	5080.5	4951.0	4721.7	4591.4	3977.3
20°	4571.6	4583.3	4659.7	4781.1	4966.3	5198.2	5376.2	5343.8	5082.2	4913.3	4167.9
22.5°	4623.7	4633.6	4706.5	4828.7	5033.7	5333.1	5661.2	5709.7	5462.5	5271.1	4372.0
25°	4769.3	4769.3	4830.5	4916.0	5108.3	5449.9	5902.2	6117.0	5851.0	5627.9	4560.8
27.5°	5047.2	5044.5	5067.0	5096.6	5242.3	5568.6	6117.0	6476.7	6253.7	6010.1	4744.2
30°	5376.2	5394.2	5396.9	5382.5	5450.9	5717.0	6315.7	6856.0	6659.2	6396.7	4932.1
32.5°	5799.7	5811.4	5797.9	5750.3	5740.4	5927.3	6510.8	7253.4	7097.9	6800.3	5103.9
35°	6337.3	6314.9	6272.6	6175.5	6082.9	6208.8	6733.8	7650.8	7590.5	7288.5	5340.3
37.5°	6913.6	6914.5	6862.3	6642.1	6514.4	6568.3	7041.3	8101.2	8186.6	7869.2	5643.2
40°	7375.7	7399.9	7432.4	7142.8	6977.4	7052.0	7432.4	8623.5	8891.4	8557.9	6037.9
42.5°	7698.4	7726.3	7818.0	7636.4	7464.7	7603.1	7892.6	9181.0	9682.6	9352.6	6500.1
45°	8040.1	8055.4	8120.1	8041.9	7932.2	8244.2	8411.4	9758.1	10519.6	10199.5	7017.0
47.5°	8399.7	8415.9	8482.4	8430.2	8372.7	8842.9	8952.6	10302.1	11321.6	11130.0	7569.0
50°	8843.8	8854.6	8917.5	8823.2	8841.1	9294.2	9436.3	10801.0	12162.2	11966.2	8122.8
52.5°	9449.8	9452.4	9539.7	9454.3	9369.8	9625.0	9852.5	11271.2	12821.2	12728.6	8676.6
55°	9924.4	9953.2	10239.1	10221.1	10172.6	9925.4	10200.4	11719.0	13409.1	13453.1	9264.5
57.5°	9621.5	9733.8	10312.8	10721.0	11118.4	10672.5	10670.7	12223.3	13955.7	14164.3	9910.9
60°	8426.7	8579.5	9432.7	10338.0	11581.4	11972.4	11647.0	12839.1	14507.7	14869.2	10721.0
62.5°	6018.2	6269.9	7426.0	8871.7	10946.6	12833.7	13633.9	13816.3	15258.5	15685.5	11773.7
65°	3042.3	3232.9	4202.1	5943.6	8745.8	12270.9	15793.4	15956.1	16562.9	16942.3	13394.7
67.5°	1848.4	1920.4	2393.2	3305.8	5361.8	9558.5	16498.2	19522.5	19087.4	19288.8	15706.2
70°	1362.0	1415.1	1709.9	2195.5	3083.7	5609.1	14335.1	22067.7	21781.8	21759.4	17414.4
72°	1060.8	1099.5	1360.2	1773.8	2254.8	3365.1	10390.1	21128.2	22553.2	22440.0	17257.9
72.5°	1006.0	1040.2	1277.5	1669.5	2130.7	3050.4	9341.8	20494.4	22497.4	22446.2	17055.6
75°	792.1	816.3	945.8	1291.0	1667.7	1730.6	5119.1	15882.3	19957.7	20787.5	15340.3
77.5°	655.4	659.0	727.4	939.5	1300.0	1223.6	2514.6	11019.5	14291.1	15203.6	10866.6
80°	534.1	538.5	570.9	659.0	983.5	905.4	1194.0	6336.4	8001.4	8011.3	5167.7
82.5°	425.3	426.2	462.1	481.9	706.7	647.3	684.1	2974.9	3496.4	3363.3	1857.4
85°	299.4	293.1	451.3	395.5	462.1	415.4	377.6	1177.8	1445.7	1382.7	581.7
87.5°	99.8	103.4	200.5	256.3	269.7	235.6	168.1	451.3	545.7	541.2	184.3
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°	3212.3	3212.3	3212.3	3212.3	3212.3	3212.3	3212.3	3212.3	3212.3	3212.3	3212.3
2.5°	3228.5	3199.7	3157.4	3110.6	3073.8	3036.0	3008.2	2993.8	2977.6	2964.1	2980.3
5°	3262.6	3208.6	3118.7	3030.6	2966.0	2908.4	2867.0	2845.4	2825.7	2812.2	2814.0
7.5°	3318.4	3231.2	3080.1	2951.5	2861.6	2799.6	2757.4	2742.9	2730.4	2726.7	2731.3
10°	3377.7	3249.1	3028.8	2858.0	2755.5	2704.3	2685.5	2695.3	2704.3	2712.4	2721.4
12.5°	3445.1	3265.3	2954.2	2748.3	2661.2	2641.4	2660.2	2703.4	2734.8	2753.7	2765.4
15°	3533.2	3279.7	2868.0	2638.7	2580.2	2602.7	2666.6	2741.2	2796.0	2831.1	2836.5
17.5°	3614.1	3278.8	2757.4	2528.1	2514.6	2580.2	2676.4	2781.6	2855.4	2904.8	2914.7
20°	3697.8	3254.5	2628.7	2420.2	2448.1	2556.0	2680.9	2807.7	2896.6	2954.2	2967.7
22.5°	3775.9	3212.3	2487.6	2322.3	2392.3	2523.6	2663.9	2792.4	2881.4	2928.1	2942.6
25°	3829.0	3138.6	2344.7	2239.5	2342.8	2484.1	2608.1	2711.5	2778.1	2801.3	2805.0
27.5°	3856.0	3042.3	2209.8	2167.6	2291.6	2419.3	2504.7	2556.0	2574.8	2573.0	2569.5
30°	3859.6	2915.6	2093.8	2109.1	2232.3	2324.0	2364.5	2354.6	2330.3	2288.9	2292.5
32.5°	3847.9	2772.7	1996.8	2053.4	2156.8	2208.0	2209.8	2162.2	2097.5	2031.8	2013.8
35°	3851.5	2632.4	1911.3	1990.4	2065.1	2087.6	2066.9	1996.8	1908.6	1824.2	1806.2
37.5°	3891.0	2510.1	1837.7	1917.7	1963.5	1968.9	1939.2	1865.5	1800.8	1718.1	1710.9
40°	3985.4	2422.9	1767.5	1835.8	1861.9	1864.6	1822.4	1770.2	1775.6	1731.6	1730.6
42.5°	4155.4	2385.1	1705.5	1750.4	1766.6	1772.0	1739.7	1706.4	1753.1	1724.4	1714.4
45°	4374.7	2394.2	1653.3	1666.8	1696.4	1721.7	1701.8	1661.4	1679.4	1554.5	1513.1
47.5°	4628.2	2451.6	1611.9	1594.9	1646.1	1693.7	1663.2	1602.1	1538.3	1414.2	1390.8
50°	4924.9	2540.7	1574.2	1523.8	1591.3	1656.0	1625.5	1538.3	1442.0	1381.9	1373.8
52.5°	5234.2	2649.4	1536.5	1445.7	1522.1	1627.2	1611.9	1523.8	1405.1	1345.9	1335.1
55°	5584.8	2759.2	1488.8	1354.8	1447.4	1613.8	1605.7	1471.8	1377.3	1344.0	1335.9
57.5°	6020.9	2884.1	1425.8	1260.5	1377.3	1565.2	1540.0	1440.3	1348.5	1323.4	1320.7
60°	6589.0	3068.4	1335.1	1159.8	1291.9	1490.6	1485.2	1394.4	1302.7	1284.7	1281.2
62.5°	7441.3	3373.2	1210.1	1059.1	1196.6	1363.9	1413.3	1332.4	1254.1	1253.2	1255.1
65°	8762.9	3831.7	1074.4	971.0	1100.4	1256.8	1329.7	1268.6	1204.7	1222.7	1225.4
67.5°	10294.8	4212.0	941.3	884.7	1002.4	1155.3	1254.1	1204.7	1139.1	1185.9	1186.7
70°	10804.6	3872.2	824.4	799.3	900.8	1057.3	1172.4	1134.6	1068.0	1114.8	1110.3
72°	10054.8	3125.9	748.9	734.5	824.4	976.4	1099.5	1069.0	1003.4	1034.8	1023.1
72.5°	9818.3	2980.3	730.1	718.3	803.7	955.7	1080.6	1052.7	987.2	1014.1	1003.4
75°	8758.4	2588.3	627.5	630.2	701.3	855.0	974.6	965.5	898.1	900.8	897.3
77.5°	6352.6	1897.8	528.7	546.6	596.9	751.6	867.6	862.1	788.5	775.0	772.3
80°	2948.0	968.3	430.7	438.8	490.8	628.4	739.9	732.8	673.4	656.3	646.4
82.5°	1009.6	460.3	323.6	329.0	380.3	506.2	641.9	637.5	588.0	554.7	534.1
85°	360.5	229.3	226.6	221.1	271.5	398.2	559.2	534.9	462.1	393.8	392.0
87.5°	116.9	98.0	116.9	116.0	158.3	269.7	406.3	346.2	335.4	278.7	273.3
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)