

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: P383347

Luminaire Tested: **GLEON-SA6C-735-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383347
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6C-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39416.6 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

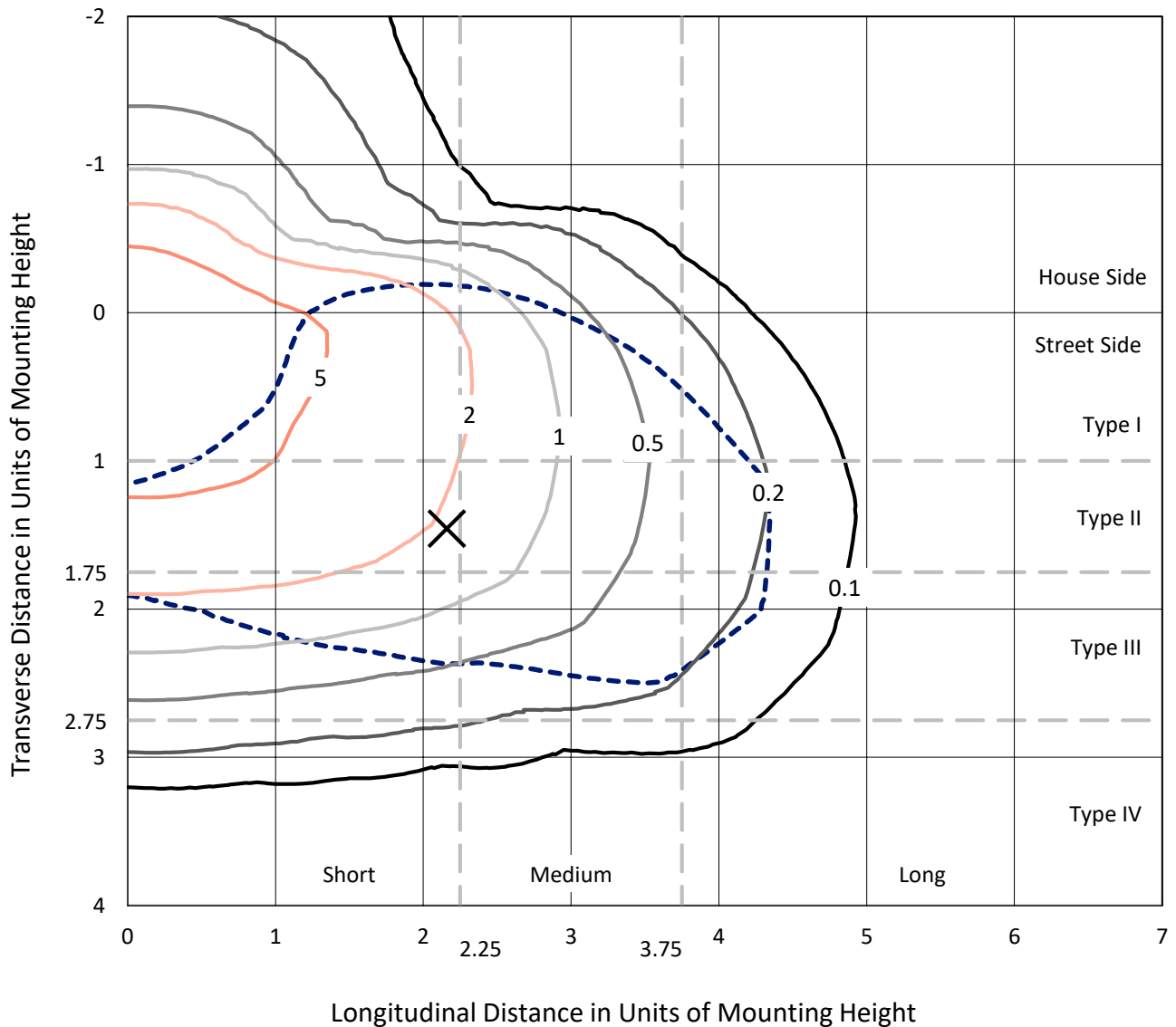
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

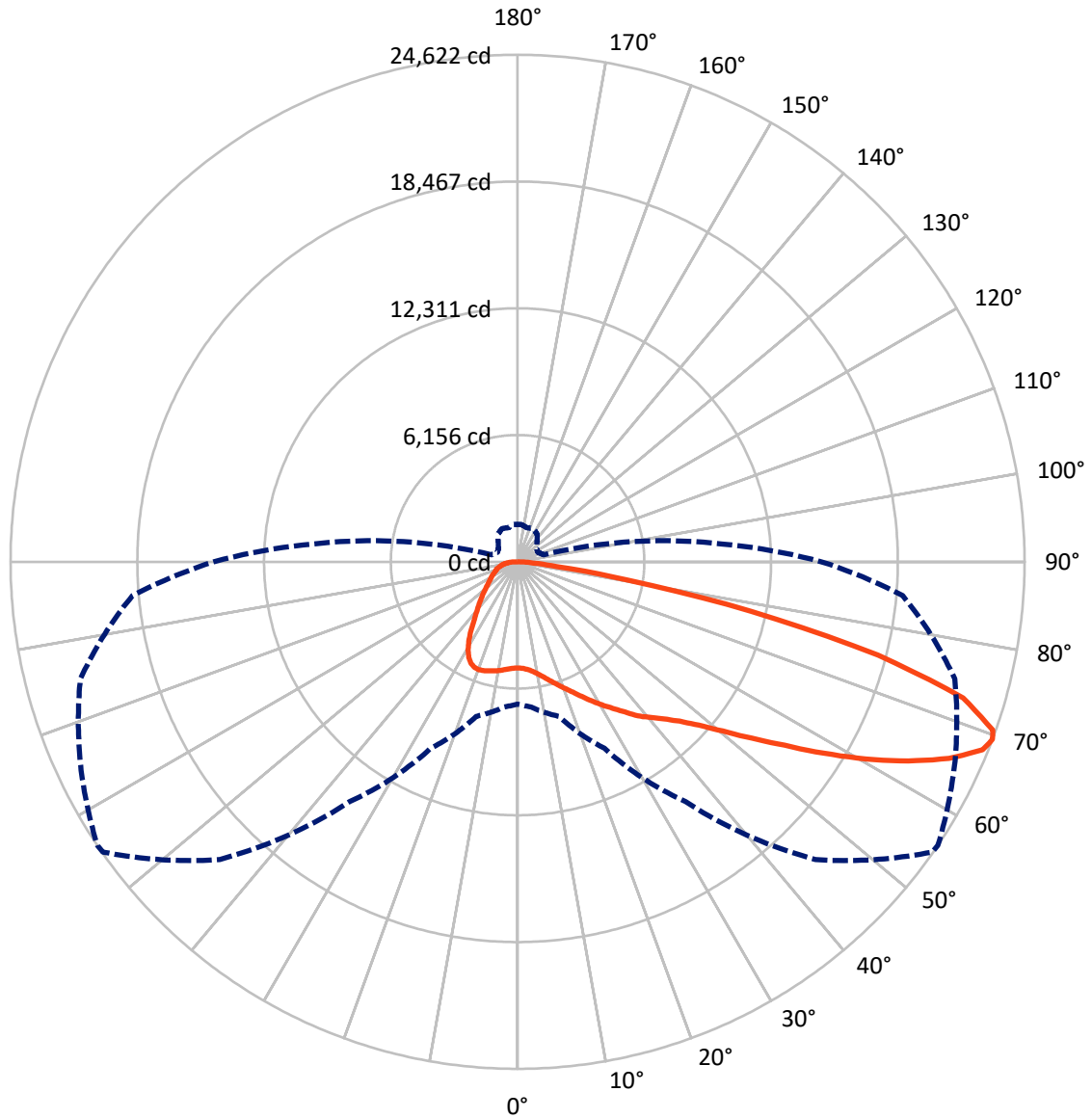
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8778.0	0.0	8778.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	30638.6	0.0	30638.6
	% Fixture	77.7	0.0	77.7
Total	Lumens	39416.6	0.0	39416.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.1	1.3
10°-20°	1627.5	4.1
20°-30°	2840.9	7.2
30°-40°	4080.9	10.4
40°-50°	5647.8	14.3
50°-60°	8274.8	21.0
60°-70°	10088.5	25.6
70°-80°	5577.6	14.2
80°-90°	772.5	2.0
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°	39416.6	100.0
0°-180°	39416.6	100.0



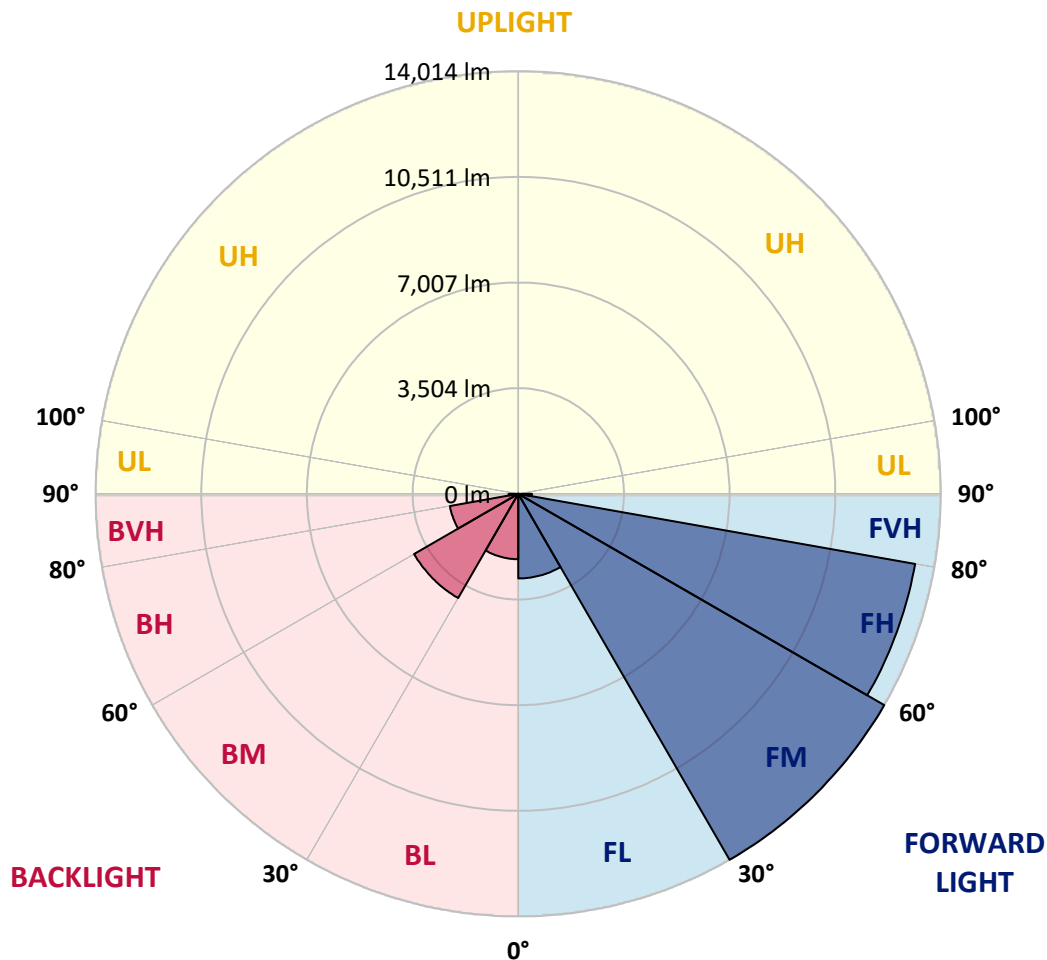
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2805.3	7.1			
FM (30°-60°)	14014.1	35.6			
FH (60°-80°)	13364.2	33.9			G5
FVH (80°-90°)	455.0	1.2			G3/500
BL (0°-30°)	2169.2	5.5	B3/2500		
BM (30°-60°)	3989.4	10.1	B3/5000		
BH (60°-80°)	2301.9	5.8	B3/2500		G3/2500
BVH (80°-90°)	317.5	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5153.1	5153.1	5153.1	5153.1	5153.1	5153.1	5153.1	5153.1	5153.1	5153.1	5153.1
2.5°	5185.7	5191.1	5187.0	5197.9	5185.7	5193.8	5187.0	5187.0	5183.0	5170.7	5157.2
5°	5267.2	5278.1	5271.3	5282.2	5267.2	5269.9	5257.7	5257.7	5245.5	5219.6	5192.5
7.5°	5394.8	5407.1	5401.6	5412.5	5392.1	5392.1	5375.8	5374.5	5350.0	5308.0	5276.7
10°	5546.9	5563.2	5557.8	5574.1	5557.8	5563.2	5546.9	5546.9	5514.3	5454.6	5415.2
12.5°	5768.2	5788.6	5773.6	5772.3	5765.5	5776.3	5762.8	5760.1	5730.2	5648.7	5594.4
15°	6064.3	6086.0	6054.8	6052.1	6014.0	6010.0	6010.0	6005.9	5986.9	5889.1	5799.4
17.5°	6405.0	6411.8	6384.7	6341.2	6292.4	6261.1	6257.1	6267.9	6267.9	6153.9	6011.3
20°	6739.1	6751.3	6729.6	6680.7	6618.3	6572.1	6539.6	6561.3	6559.9	6424.0	6221.8
22.5°	7103.1	7131.6	7099.0	7036.5	6963.1	6911.5	6854.5	6873.5	6874.9	6707.9	6428.1
25°	7574.2	7548.4	7528.0	7439.8	7335.2	7282.3	7229.3	7248.3	7242.9	7013.4	6641.4
27.5°	7991.1	7996.5	7969.4	7875.7	7754.8	7638.0	7635.3	7647.5	7627.1	7331.2	6842.3
30°	8475.9	8478.6	8440.6	8356.4	8224.6	8073.9	8038.6	8059.0	8015.5	7632.6	7054.1
32.5°	8957.9	8971.5	8929.3	8827.5	8721.6	8538.3	8467.7	8481.3	8372.7	7940.8	7272.8
35°	9380.2	9399.2	9385.6	9317.7	9202.3	9044.8	8960.6	8952.5	8818.0	8318.3	7562.0
37.5°	9810.6	9828.3	9813.3	9756.3	9710.2	9543.1	9498.3	9498.3	9264.8	8703.9	7930.0
40°	10253.3	10280.5	10262.8	10184.1	10144.6	10068.6	9961.3	9935.5	9683.0	9167.0	8530.2
42.5°	10664.7	10700.0	10770.6	10724.4	10644.3	10655.2	10439.3	10425.7	10241.1	9851.4	9283.8
45°	11248.6	11300.2	11419.7	11384.4	11368.1	11308.3	11051.7	11039.5	10968.9	10772.0	10219.4
47.5°	11885.4	11956.0	12172.0	12178.8	12353.9	12241.2	11892.2	11850.1	11866.4	11874.6	11361.3
50°	12472.0	12549.4	12903.9	13070.9	13483.7	13508.1	12950.0	12912.0	12975.8	13163.2	12692.1
52.5°	12940.5	13038.3	13481.0	13997.0	14704.4	14905.3	14252.2	14223.7	14271.2	14594.4	14196.5
55°	13284.1	13390.0	13872.0	14811.7	15941.4	16295.8	15751.4	15724.2	15754.1	16165.4	15832.8
57.5°	13364.2	13390.0	14089.3	15360.3	16985.7	17837.0	17585.8	17531.4	17384.8	17743.3	17638.8
60°	12988.0	13091.2	13910.1	15553.0	17793.6	19356.4	19503.1	19435.3	19023.8	19317.1	19232.9
62.5°	12224.9	12409.6	13240.6	15259.8	18109.9	20597.5	21383.8	21302.3	20593.4	20783.6	20378.9
65°	10978.4	11057.2	11930.2	14248.1	17708.0	21391.9	23060.7	23020.0	22127.9	21830.5	20590.7
67.5°	8748.7	8896.7	9638.2	12134.0	16063.6	21298.3	24357.5	24353.4	23130.0	22218.9	19839.8
69°	6911.5	7065.0	7771.1	9995.3	14214.2	20441.4	24574.8	24622.3	23412.4	21982.6	18767.1
70°	5510.3	5688.1	6172.9	8418.8	12572.5	19311.6	24394.2	24479.7	23358.1	21592.9	17777.3
72.5°	2345.1	2489.0	2833.9	4339.8	7662.4	14420.6	22304.4	22627.6	22099.4	19762.5	14692.2
75°	1023.9	1068.7	1224.8	1769.3	3401.5	7848.5	17473.1	18070.5	18896.2	16704.5	10944.5
77.5°	749.5	768.5	854.1	1038.8	1526.2	2964.3	11236.4	11584.0	13627.6	12155.7	6713.3
80°	579.8	593.4	659.9	763.1	996.7	1199.0	5124.6	5423.4	7662.4	6243.5	2795.9
82.5°	461.7	471.2	517.4	562.2	688.4	726.4	1701.4	1887.4	2828.5	1724.5	740.0
85°	429.1	440.0	456.3	410.1	441.3	426.4	735.9	769.9	854.1	677.6	309.6
87.5°	194.1	229.4	452.2	319.1	234.9	187.4	301.4	315.0	354.4	355.8	137.1
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°	5153.1	5153.1	5153.1	5153.1	5153.1	5153.1	5153.1	5153.1	5153.1	5153.1	5153.1
2.5°	5165.3	5161.2	5168.0	5151.7	5172.1	5170.7	5163.9	5166.7	5180.2	5178.9	5180.2
5°	5196.5	5193.8	5202.0	5189.7	5214.2	5222.3	5223.7	5235.9	5250.9	5255.0	5255.0
7.5°	5275.4	5275.4	5279.4	5263.2	5279.4	5278.1	5271.3	5283.5	5298.5	5299.8	5298.5
10°	5411.1	5412.5	5405.7	5363.6	5350.0	5313.4	5279.4	5280.8	5299.8	5314.7	5318.8
12.5°	5582.2	5576.8	5546.9	5469.5	5412.5	5337.8	5302.5	5301.2	5320.2	5332.4	5336.5
15°	5777.7	5762.8	5685.4	5559.1	5458.7	5385.3	5328.3	5314.7	5303.9	5290.3	5291.7
17.5°	5962.4	5928.5	5799.4	5624.3	5518.4	5420.6	5310.7	5222.3	5161.2	5125.9	5115.1
20°	6149.8	6083.3	5897.3	5685.4	5551.0	5373.1	5161.2	4982.0	4870.7	4819.1	4809.6
22.5°	6320.9	6213.6	5988.2	5749.2	5525.2	5212.8	4880.2	4619.5	4464.7	4395.4	4400.8
25°	6487.9	6338.5	6083.3	5794.0	5394.8	4930.4	4489.1	4168.7	3989.4	3912.0	3909.3
27.5°	6634.6	6464.8	6186.5	5757.3	5151.7	4528.5	4026.1	3713.8	3564.4	3497.9	3487.0
30°	6802.9	6623.7	6323.6	5617.5	4796.0	4064.2	3573.9	3353.9	3248.0	3181.5	3169.3
32.5°	7007.9	6839.6	6436.3	5363.6	4341.1	3579.4	3220.8	3067.4	2971.0	2896.4	2882.8
35°	7306.7	7124.8	6464.8	4999.7	3841.4	3196.4	2961.5	2804.1	2673.6	2577.2	2567.7
37.5°	7681.4	7481.9	6399.6	4528.5	3356.6	2948.0	2745.6	2551.4	2381.7	2246.0	2224.2
40°	8221.9	7920.5	6219.0	3985.3	2999.6	2756.4	2535.1	2313.8	2103.3	1944.5	1913.2
42.5°	8870.9	8435.1	5942.1	3445.0	2737.4	2562.3	2326.1	2051.7	1850.8	1738.1	1721.8
45°	9696.6	8970.1	5557.8	2972.4	2479.5	2368.1	2100.6	1848.1	1723.2	1640.3	1626.8
47.5°	10638.9	9570.3	5154.4	2588.1	2260.9	2186.2	1920.0	1757.1	1658.0	1592.8	1580.6
50°	11797.2	10247.9	4726.8	2273.1	2040.9	1967.5	1834.5	1706.9	1628.1	1577.9	1565.7
52.5°	13103.4	11012.4	4418.5	2024.6	1858.9	1806.0	1789.7	1679.7	1615.9	1577.9	1565.7
55°	14510.3	11790.4	4085.9	1815.5	1701.4	1716.4	1759.8	1682.4	1639.0	1592.8	1575.2
57.5°	15918.3	12594.2	3715.1	1639.0	1576.5	1649.8	1739.5	1687.9	1651.2	1606.4	1590.1
60°	17031.8	13103.4	3140.7	1490.9	1477.3	1576.5	1690.6	1647.1	1599.6	1601.0	1598.3
62.5°	17551.8	13076.3	2506.6	1359.2	1378.2	1477.3	1611.8	1583.3	1543.9	1596.9	1601.0
65°	17259.9	12424.5	1951.2	1239.7	1272.3	1374.1	1530.3	1552.1	1565.7	1667.5	1681.1
67.5°	16035.1	11156.3	1511.3	1135.2	1175.9	1303.5	1538.5	1690.6	1708.2	1815.5	1814.1
69°	14768.2	9966.8	1313.0	1080.9	1128.4	1321.2	1644.4	1778.8	1712.3	1826.3	1810.0
70°	13706.3	9025.8	1207.2	1044.2	1106.7	1352.4	1715.0	1777.5	1691.9	1789.7	1762.5
72.5°	10556.1	6493.4	1023.9	976.4	1033.4	1294.0	1735.4	1738.1	1644.4	1663.4	1617.3
75°	7240.2	4103.5	893.4	883.9	922.0	1166.4	1670.2	1660.7	1520.8	1493.6	1455.6
77.5°	3992.1	2084.3	759.0	795.7	821.5	1033.4	1518.1	1504.5	1389.1	1332.1	1318.5
80°	1539.8	912.5	640.9	707.4	723.7	894.8	1330.7	1318.5	1222.1	1148.8	1128.4
82.5°	581.2	478.0	529.6	612.4	607.0	738.7	1127.1	1120.3	1026.6	919.3	886.6
85°	268.8	286.5	419.6	505.1	465.8	547.2	901.6	913.8	799.8	672.1	672.1
87.5°	114.0	160.2	297.3	381.6	313.7	369.4	661.3	631.4	579.8	402.0	377.5
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)