

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: P383465

Luminaire Tested: **GLEON-SA7C-735-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7C-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46280.2 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

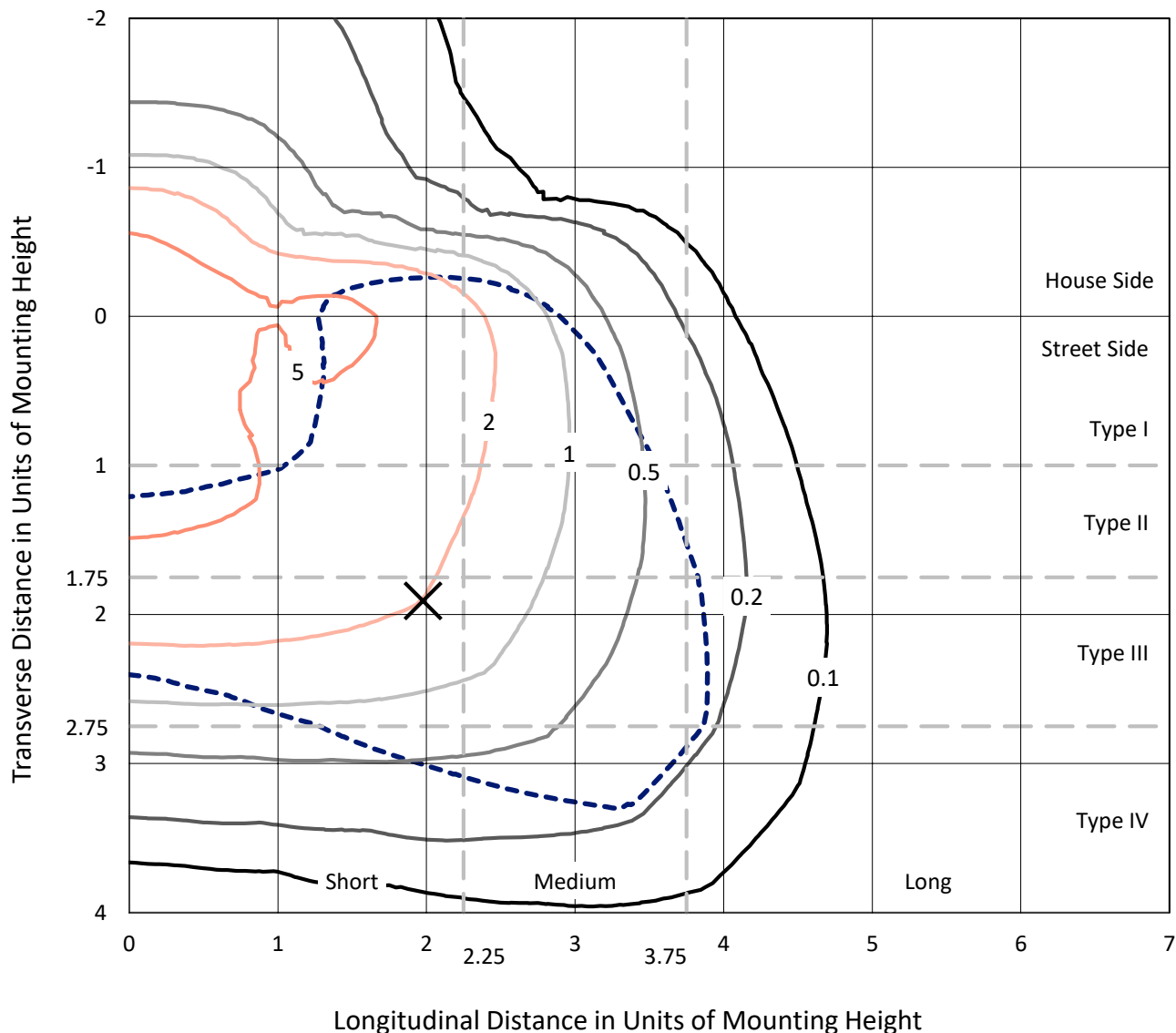
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

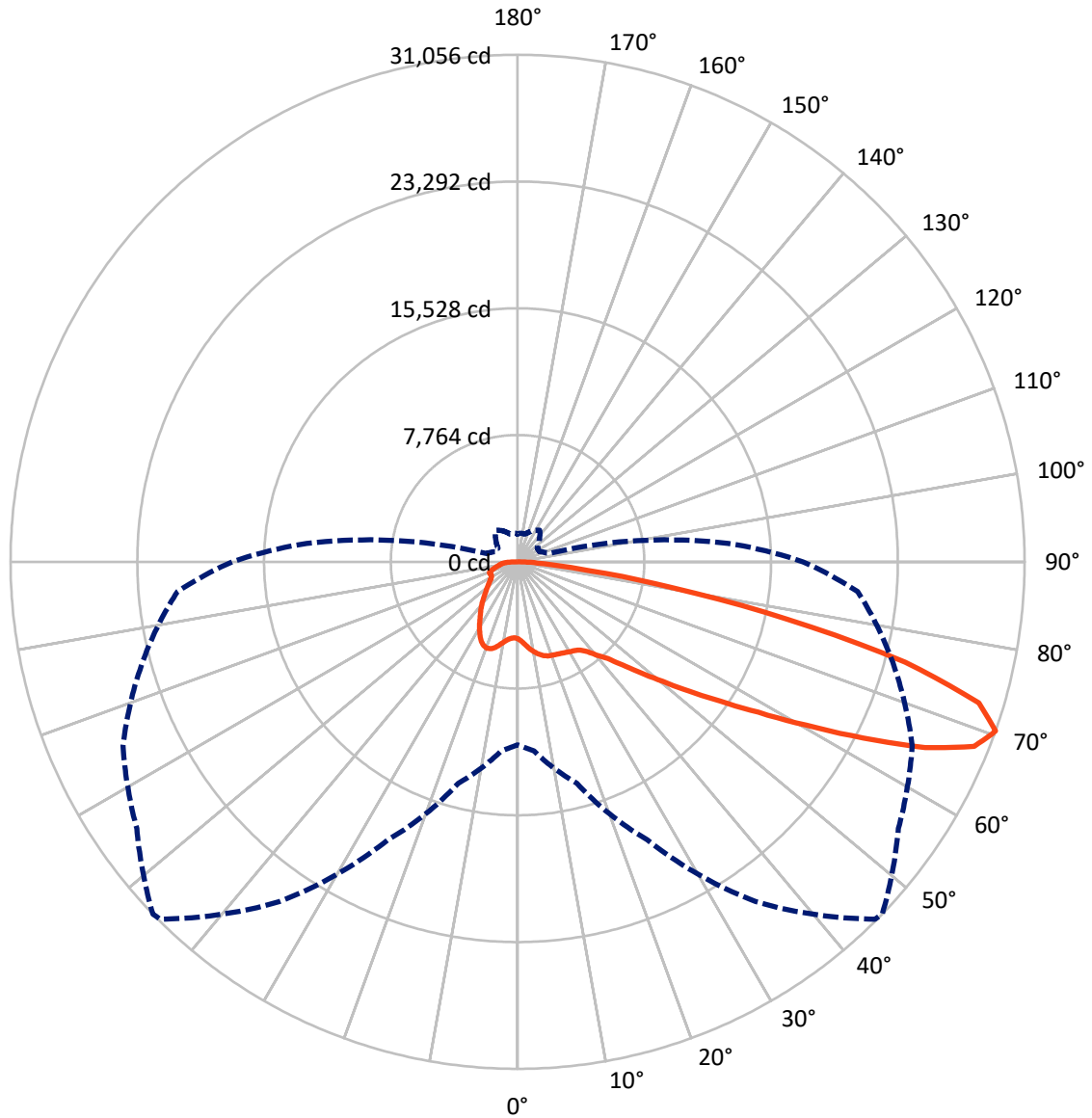
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10607.3	0.0	10607.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	35672.9	0.0	35672.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	46280.2	0.0	46280.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.7	1.0
10°-20°	1601.4	3.5
20°-30°	2670.2	5.8
30°-40°	3789.2	8.2
40°-50°	5573.7	12.0
50°-60°	9439.0	20.4
60°-70°	13398.5	29.0
70°-80°	8139.7	17.6
80°-90°	1187.9	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°	46280.2	100.0
0°-180°	46280.2	100.0

Coefficient of Utilization

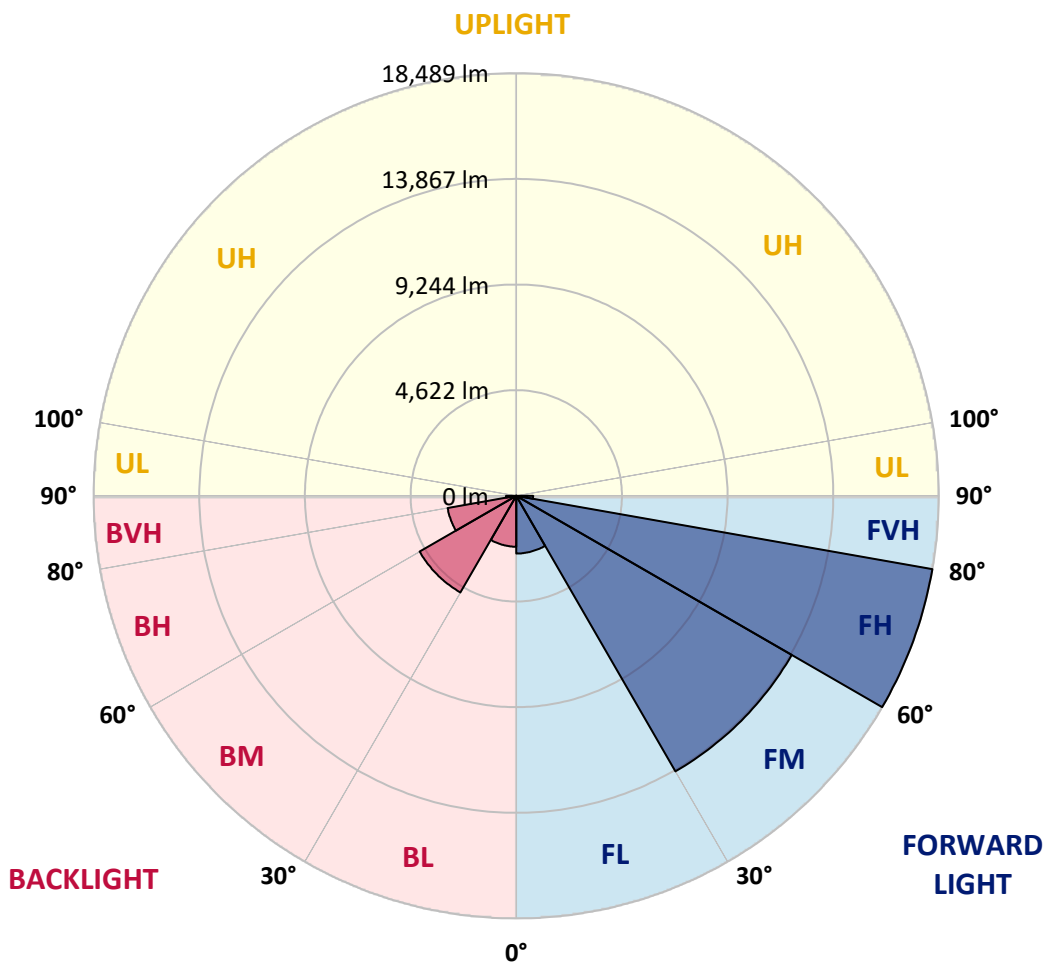


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2525.3	5.5			
FM (30°-60°)	13919.0	30.1			
FH (60°-80°)	18488.7	39.9			G5
FVH (80°-90°)	740.0	1.6			G4/750
BL (0°-30°)	2227.0	4.8	B3/2500		
BM (30°-60°)	4882.8	10.6	B3/5000		
BH (60°-80°)	3049.5	6.6	B4/5000		G4/5000
BVH (80°-90°)	447.9	1.0			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4715.0	4715.0	4715.0	4715.0	4715.0	4715.0	4715.0	4715.0	4715.0	4715.0	4715.0
2.5°	4951.1	4954.2	4960.6	4944.7	4900.3	4887.6	4882.9	4837.0	4806.9	4762.5	4724.5
5°	5347.0	5350.2	5340.7	5296.3	5198.1	5125.3	5118.9	5014.4	4919.3	4818.0	4741.9
7.5°	5760.4	5765.2	5735.1	5651.0	5513.3	5386.6	5378.7	5236.1	5092.0	4938.4	4824.3
10°	6126.2	6107.2	6058.1	5940.9	5777.8	5622.5	5616.2	5467.3	5301.1	5115.8	4963.8
12.5°	6370.1	6354.3	6290.9	6148.4	5969.5	5826.9	5814.3	5676.4	5514.9	5312.2	5130.0
15°	6504.8	6515.9	6430.3	6268.8	6094.6	5974.2	5963.1	5864.9	5720.8	5516.4	5307.4
17.5°	6522.2	6531.7	6449.4	6289.3	6146.8	6064.5	6059.7	5994.8	5890.3	5693.9	5475.3
20°	6420.8	6427.1	6359.0	6227.6	6134.1	6108.8	6107.2	6078.7	6001.1	5826.9	5614.6
22.5°	6273.5	6278.3	6229.2	6134.1	6102.5	6142.1	6153.2	6142.1	6086.6	5923.5	5724.0
25°	6237.1	6233.9	6183.2	6086.6	6113.6	6197.5	6211.7	6216.5	6178.5	6036.0	5863.3
27.5°	6412.9	6401.8	6305.2	6150.0	6167.4	6268.8	6287.8	6333.7	6309.9	6184.8	6021.7
30°	6921.3	6902.3	6704.3	6390.7	6305.2	6357.4	6381.2	6454.1	6458.9	6354.3	6232.3
32.5°	7779.7	7756.0	7401.2	6840.5	6538.1	6447.7	6470.0	6579.2	6637.8	6557.1	6425.5
35°	8864.7	8837.8	8372.1	7605.5	6927.6	6620.4	6636.3	6723.4	6840.5	6726.5	6552.3
37.5°	9995.5	9930.6	9482.3	8505.1	7546.9	6989.4	6989.4	7000.5	7055.9	6818.4	6701.2
40°	11120.1	11055.1	10649.6	9563.2	8348.3	7570.7	7534.3	7288.8	7244.5	7040.1	7000.5
42.5°	12165.4	12146.4	11907.2	10758.9	9289.1	8142.5	8091.8	7675.2	7684.7	7558.0	7559.6
45°	13277.3	13277.3	13082.4	11965.8	10385.2	9061.1	9010.4	8397.4	8492.5	8433.9	8574.8
47.5°	14184.8	14213.3	14186.4	13223.3	11660.1	10228.3	10136.4	9398.4	9664.5	9865.6	10275.9
50°	15111.3	15155.6	15160.4	14602.8	13201.1	11615.7	11511.2	10727.2	11321.2	11897.7	12703.9
52.5°	16456.0	16555.7	16158.2	15979.2	15089.1	13262.9	13160.0	12436.2	13427.7	14237.0	15626.1
55°	17702.4	17615.3	17331.8	17442.7	17110.1	15138.2	15060.6	14425.5	15774.9	16826.5	18630.6
57.5°	18377.1	18370.8	18655.9	19131.0	19289.4	17450.6	17385.7	16767.9	18421.4	19211.8	21451.3
60°	19169.0	19180.1	19886.5	20965.1	21617.6	20330.0	20301.5	19832.6	20992.1	21438.6	23663.9
62.5°	19279.9	19479.5	20695.8	22552.1	23796.9	23694.0	23757.4	22593.3	23291.8	23215.7	25315.8
65°	18005.0	18267.8	20469.4	23032.0	25963.6	27373.2	27431.8	25369.7	25105.2	24734.6	25906.6
67.5°	15391.6	15781.3	18172.8	21988.2	26677.9	30092.7	30175.1	27522.1	26609.8	25249.3	24484.3
70°	11200.8	11633.2	14040.7	18779.4	25404.5	30962.2	31055.7	28474.1	26666.9	23784.3	20901.8
72.5°	6766.1	7105.0	9089.6	13825.2	21441.8	29378.4	29544.7	27267.1	24346.6	20146.3	15434.3
75°	2971.3	3193.0	4395.1	7966.7	15350.4	24307.0	24514.4	23339.3	19782.0	14640.9	9122.8
77.5°	1265.5	1328.9	1802.4	3460.7	8677.7	16609.6	16894.6	17053.0	13421.4	7966.7	3855.0
80°	788.7	814.1	1020.0	1566.4	4060.9	9328.7	9636.0	10033.5	6664.8	2928.5	1346.3
82.5°	479.9	508.4	677.9	947.1	2114.4	4228.9	4376.1	4656.4	2586.3	1265.5	696.9
85°	288.2	308.8	415.0	598.7	1203.7	1663.0	1661.4	1837.2	1218.0	814.1	367.4
87.5°	137.8	153.6	221.7	310.4	606.6	624.0	584.5	662.1	739.6	533.8	185.3
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°	4715.0	4715.0	4715.0	4715.0	4715.0	4715.0	4715.0	4715.0	4715.0	4715.0	4715.0
2.5°	4711.9	4705.5	4684.9	4669.1	4665.9	4656.4	4648.5	4653.3	4659.6	4661.2	4661.2
5°	4710.3	4692.9	4665.9	4654.9	4669.1	4688.1	4711.9	4743.5	4762.5	4776.8	4786.3
7.5°	4786.3	4753.0	4722.9	4716.6	4745.1	4795.8	4849.6	4916.1	4962.2	4993.8	5000.2
10°	4913.0	4871.8	4841.7	4848.1	4898.7	4971.7	5047.7	5133.2	5202.9	5245.6	5248.8
12.5°	5058.8	5019.2	4990.7	5017.6	5101.5	5190.2	5269.4	5343.8	5407.2	5449.9	5449.9
15°	5226.6	5198.1	5164.9	5226.6	5340.7	5419.8	5453.1	5489.5	5524.4	5556.0	5549.7
17.5°	5388.2	5361.2	5343.8	5416.7	5535.4	5571.9	5549.7	5522.8	5522.8	5540.2	5543.4
20°	5527.5	5503.8	5514.9	5586.1	5647.9	5609.9	5527.5	5442.0	5407.2	5416.7	5426.2
22.5°	5649.5	5638.4	5671.6	5705.0	5660.5	5527.5	5375.5	5259.9	5217.1	5214.0	5217.1
25°	5792.1	5790.5	5831.7	5771.5	5575.0	5329.6	5125.3	5012.8	4989.1	5008.1	5039.8
27.5°	5969.5	5986.9	6007.5	5787.3	5400.8	5030.3	4822.7	4745.1	4768.9	4814.8	4844.9
30°	6195.9	6243.4	6199.1	5747.7	5150.6	4688.1	4490.2	4468.0	4532.9	4597.8	4629.5
32.5°	6416.0	6490.6	6382.8	5644.7	4827.5	4325.5	4171.7	4165.4	4244.7	4308.0	4352.4
35°	6593.5	6740.8	6520.6	5440.4	4453.7	3991.2	3878.8	3836.0	3864.5	3939.0	3989.6
37.5°	6824.7	7070.2	6615.7	5128.4	4048.2	3715.7	3584.2	3486.0	3460.7	3490.8	3516.1
40°	7247.6	7572.3	6660.0	4692.9	3652.3	3440.1	3307.0	3162.9	3063.1	2990.3	2991.9
42.5°	7938.1	8226.4	6631.5	4163.8	3286.4	3170.8	3020.4	2854.1	2692.5	2527.8	2515.1
45°	9059.5	9198.8	6546.0	3603.2	2964.9	2888.9	2748.0	2581.6	2366.2	2179.4	2161.9
47.5°	10853.9	10545.1	6412.9	3113.8	2681.5	2649.7	2519.8	2328.2	2100.2	1949.7	1937.1
50°	13301.0	12488.4	6347.9	2724.2	2431.2	2440.7	2334.6	2131.8	1916.5	1805.5	1792.9
52.5°	16227.8	14751.7	6473.1	2423.2	2230.0	2263.3	2184.1	1994.1	1813.4	1726.3	1713.7
55°	19264.0	17095.9	6607.7	2204.7	2040.0	2104.9	2078.0	1921.2	1758.0	1677.3	1666.2
57.5°	21863.1	18846.0	6338.4	2027.3	1870.5	1971.9	1995.7	1875.2	1729.5	1656.7	1644.0
60°	23499.2	19550.8	5632.0	1861.0	1735.8	1865.7	1948.1	1862.5	1740.6	1734.3	1724.8
62.5°	24275.3	19489.0	4572.5	1729.5	1651.9	1819.8	1983.0	1933.9	1867.3	1924.4	1929.1
65°	23926.9	18557.6	3405.2	1642.4	1591.7	1837.2	2087.5	2068.5	1903.8	1960.8	1968.7
67.5°	21633.5	16335.6	2521.4	1566.4	1525.2	1886.3	2277.5	2112.8	1832.4	1873.6	1848.3
70°	17485.4	12950.9	1945.0	1480.9	1457.1	1880.0	2363.1	2085.9	1754.8	1764.4	1696.3
72.5°	12057.7	8831.4	1582.2	1401.7	1358.9	1713.7	2302.9	2019.4	1689.9	1617.1	1526.8
75°	6557.1	4740.4	1344.7	1319.4	1186.3	1504.6	2192.0	1971.9	1631.3	1534.7	1484.0
77.5°	2580.0	1967.1	1167.3	1206.9	1037.4	1328.9	2068.5	1881.5	1550.6	1423.9	1398.5
80°	1053.2	1004.1	967.7	1043.7	891.7	1162.6	1919.6	1775.4	1454.0	1320.9	1270.3
82.5°	597.1	624.0	752.3	823.6	723.8	1070.6	1848.3	1689.9	1338.4	1183.2	1122.9
85°	305.6	365.8	524.3	590.8	532.2	910.7	1702.6	1479.3	1073.8	905.9	910.7
87.5°	147.3	204.3	331.0	370.6	345.2	658.9	1271.8	1072.2	836.3	662.1	641.5
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)