

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: P383225

Luminaire Tested: **GLEON-SA5C-735-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5C-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31292.5 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

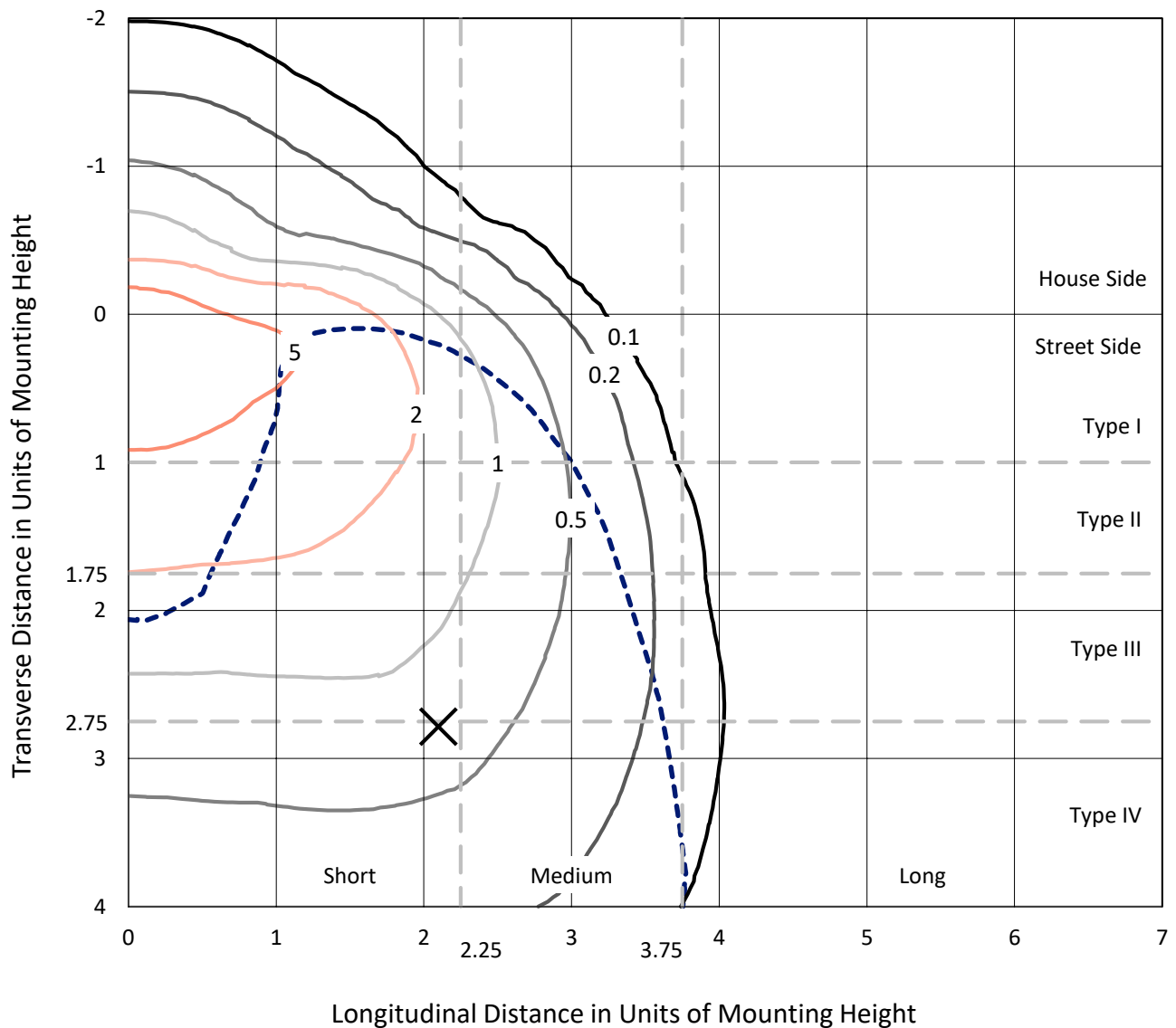
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

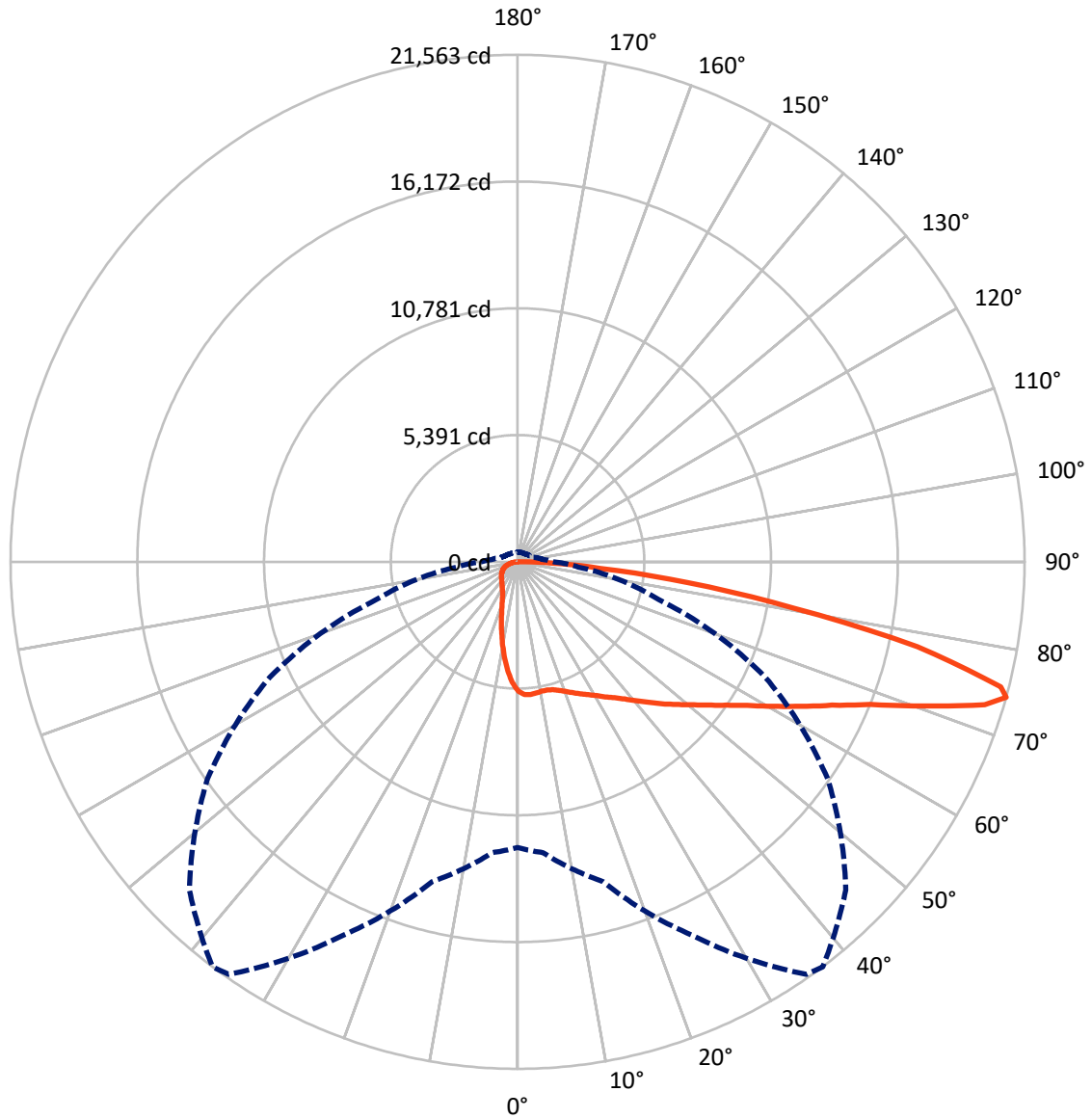
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4305.6	0.0	4305.6
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	26986.9	0.0	26986.9
	% Fixture	86.2	0.0	86.2
Total	Lumens	31292.5	0.0	31292.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.5	1.6
10°-20°	1244.6	4.0
20°-30°	1917.6	6.1
30°-40°	2788.5	8.9
40°-50°	4104.2	13.1
50°-60°	5763.6	18.4
60°-70°	7295.0	23.3
70°-80°	6423.5	20.5
80°-90°	1270.1	4.1
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°	31292.5	100.0
0°-180°	31292.5	100.0

Coefficient of Utilization

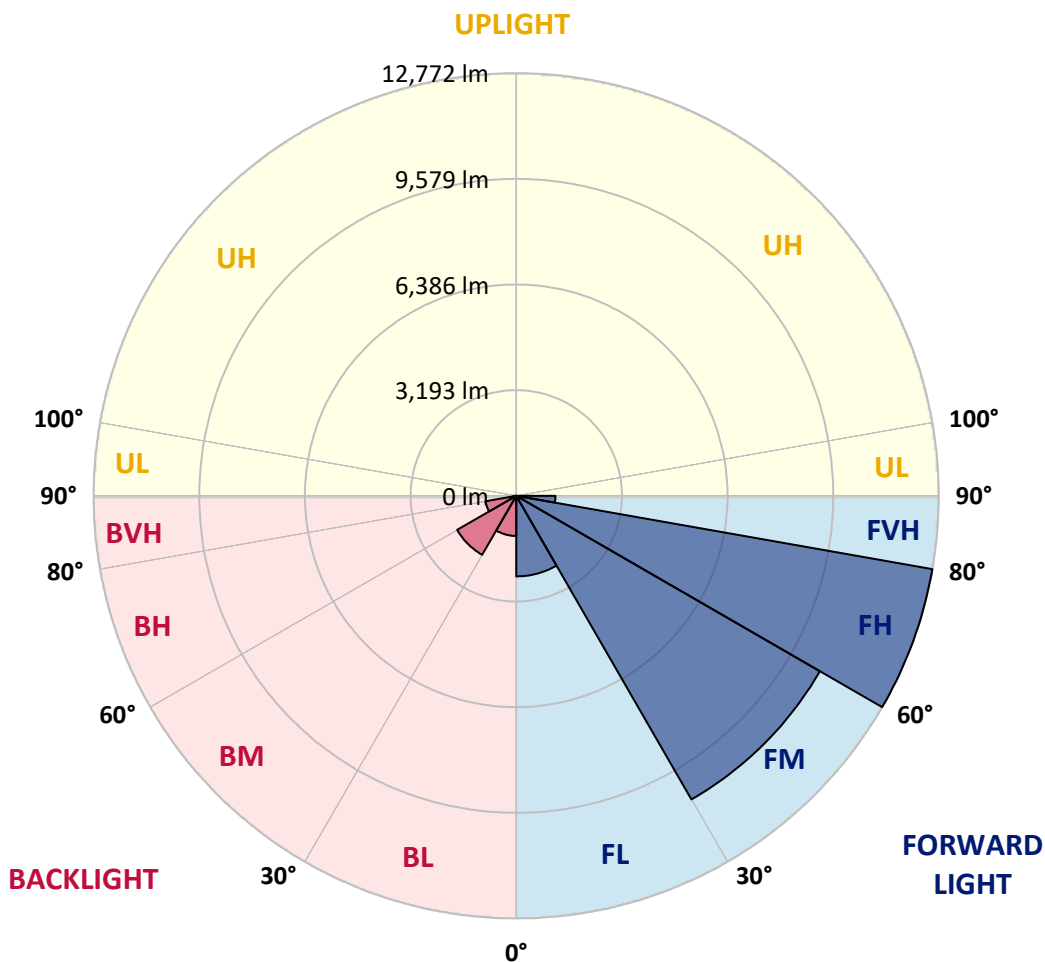


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2434.9	7.8			
FM (30°-60°)	10595.9	33.9			
FH (60°-80°)	12772.0	40.8			G5
FVH (80°-90°)	1184.1	3.8			G5
BL (0°-30°)	1212.8	3.9	B3/2500		
BM (30°-60°)	2060.4	6.6	B2/2500		
BH (60°-80°)	946.4	3.0	B2/1000		G2/1000
BVH (80°-90°)	86.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	5513.6	5513.6	5513.6	5513.6	5513.6	5513.6	5513.6	5513.6	5513.6	5513.6	5513.6
2.5°	5702.1	5703.2	5702.1	5693.3	5672.4	5654.7	5640.4	5619.5	5573.2	5537.9	5485.0
5°	5756.1	5749.5	5745.1	5728.6	5695.5	5675.6	5648.1	5608.4	5532.4	5461.8	5375.9
7.5°	5730.8	5723.1	5713.2	5693.3	5655.8	5639.3	5600.7	5548.9	5457.4	5364.8	5241.4
10°	5652.5	5650.3	5645.9	5641.5	5609.5	5596.3	5561.1	5505.9	5415.6	5303.1	5158.7
12.5°	5565.4	5570.9	5588.5	5611.7	5597.4	5590.8	5568.7	5531.3	5438.7	5317.5	5143.3
15°	5510.3	5525.8	5573.2	5633.8	5645.9	5643.7	5638.2	5614.0	5515.8	5381.4	5178.6
17.5°	5491.6	5516.9	5607.4	5707.6	5742.9	5750.6	5752.9	5710.9	5601.8	5459.6	5214.9
20°	5525.8	5557.7	5690.0	5827.8	5884.0	5888.4	5878.4	5805.8	5683.4	5526.9	5234.7
22.5°	5629.3	5658.0	5823.4	5978.8	6042.8	6049.4	6019.6	5909.4	5769.4	5606.2	5262.3
25°	5828.9	5864.2	6029.5	6184.9	6218.0	6219.1	6176.1	6039.4	5881.8	5717.6	5321.8
27.5°	6089.1	6124.3	6273.1	6425.3	6407.6	6397.7	6339.3	6202.5	6028.4	5870.8	5427.7
30°	6379.0	6417.5	6558.6	6666.6	6624.7	6604.9	6557.4	6381.1	6232.3	6080.2	5589.7
32.5°	6678.7	6714.0	6837.5	6911.3	6858.4	6849.6	6777.9	6617.0	6498.0	6399.8	5852.0
35°	6986.2	7011.7	7132.9	7174.8	7104.3	7102.0	7082.2	6934.4	6859.5	6905.8	6233.5
37.5°	7300.4	7307.1	7410.6	7412.9	7391.9	7400.8	7421.6	7329.0	7350.0	7494.4	6729.4
40°	7580.4	7598.1	7673.0	7696.2	7732.5	7763.4	7868.1	7807.5	7969.5	8225.3	7346.7
42.5°	7787.6	7821.8	7942.0	8001.4	8119.5	8167.9	8315.6	8371.8	8698.1	9081.8	8080.8
45°	7962.9	8015.8	8208.7	8331.1	8530.6	8615.4	8827.1	9015.6	9521.5	10011.0	8853.5
47.5°	8152.5	8219.7	8461.2	8694.8	8966.0	9061.9	9446.5	9728.8	10400.1	10945.7	9582.2
50°	8431.3	8483.1	8719.1	9086.1	9424.6	9548.0	10080.4	10484.9	11292.9	11836.3	10213.8
52.5°	8820.5	8800.6	9000.1	9514.9	9969.0	10121.2	10757.2	11289.6	12197.9	12642.1	10747.3
55°	9211.8	9178.7	9318.7	9963.6	10604.0	10763.8	11502.4	12097.5	13058.8	13367.4	11156.2
57.5°	9647.2	9584.3	9702.3	10469.5	11327.1	11517.7	12336.8	12956.2	13905.3	13953.8	11416.4
60°	10095.8	10011.0	10143.2	11096.7	12245.3	12470.2	13313.4	13794.0	14703.4	14423.4	11500.1
62.5°	10488.2	10428.7	10632.6	11796.7	13280.3	13527.2	14272.3	14684.6	15490.4	14618.5	11198.1
65°	10831.0	10841.0	11193.7	12583.7	14434.4	14697.9	15372.5	15782.5	16109.9	14502.8	10491.6
67.5°	11240.0	11296.2	11898.1	13619.8	15887.3	16176.0	16973.0	16979.6	16456.0	13823.7	9100.5
70°	11836.3	11952.0	12867.0	15057.2	17952.9	18349.7	18964.8	17682.8	15969.9	11983.0	7160.4
72.5°	12365.5	12581.5	13897.6	16701.8	20470.5	20771.5	20129.9	17277.2	13938.4	8980.3	4460.9
74°	12150.5	12418.4	14085.0	17512.0	21418.5	21562.9	19736.4	16093.3	11621.3	6219.1	2592.6
75°	11687.5	11978.5	13811.6	17504.2	21298.3	21217.9	18786.2	14740.8	9571.1	4241.6	1725.0
77.5°	9432.3	9739.8	11637.9	15002.1	17463.4	17387.4	14431.1	9888.6	4192.0	1391.1	876.3
80°	5483.8	5718.7	7224.3	9527.0	11775.7	11913.5	9490.7	4893.0	1649.0	781.5	594.1
82.5°	2436.1	2598.1	3489.9	4863.2	7106.4	7283.9	4970.2	2563.9	1018.6	475.1	357.2
85°	1598.3	1718.4	2118.6	2315.9	3384.0	3505.2	2432.7	1996.2	672.4	261.2	262.3
87.5°	1149.7	1265.4	1574.0	1374.6	1553.1	1470.4	1323.8	1847.4	270.1	148.8	88.2
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°	5513.6	5513.6	5513.6	5513.6	5513.6	5513.6	5513.6	5513.6	5513.6	5513.6	5513.6
2.5°	5461.8	5444.2	5404.5	5329.6	5287.7	5252.3	5193.9	5159.7	5144.4	5143.3	5149.9
5°	5326.2	5285.4	5182.9	5057.3	4957.0	4865.5	4751.9	4683.6	4635.1	4606.4	4614.1
7.5°	5168.6	5104.7	4943.7	4743.2	4582.2	4404.7	4229.5	4124.7	4043.2	3982.6	3993.5
10°	5060.6	4972.4	4737.6	4448.8	4181.0	3923.0	3681.7	3537.3	3422.6	3334.4	3341.0
12.5°	5024.2	4905.2	4580.0	4194.2	3818.3	3465.5	3150.3	2928.8	2810.9	2710.5	2718.3
15°	5029.7	4869.9	4447.7	3964.9	3492.0	3047.8	2665.3	2406.3	2246.4	2177.0	2178.1
17.5°	5034.2	4829.1	4308.9	3719.1	3169.0	2657.6	2242.0	1979.7	1828.7	1764.7	1765.8
20°	5019.8	4763.0	4136.9	3436.9	2831.8	2299.3	1897.0	1674.4	1559.7	1510.1	1510.1
22.5°	5001.1	4684.8	3942.9	3153.7	2498.9	1988.5	1650.1	1480.3	1414.3	1381.2	1380.1
25°	5009.9	4626.3	3744.4	2862.6	2192.4	1740.5	1485.9	1373.5	1329.3	1308.5	1307.3
27.5°	5057.3	4598.8	3561.5	2572.7	1924.6	1554.2	1375.6	1296.2	1267.6	1254.4	1254.4
30°	5143.3	4598.8	3370.8	2325.8	1701.9	1416.4	1290.8	1236.7	1216.9	1208.1	1208.1
32.5°	5293.1	4624.1	3186.7	2081.1	1524.5	1308.5	1220.2	1183.8	1168.4	1164.0	1164.0
35°	5551.1	4710.1	3007.0	1849.6	1381.2	1220.2	1153.0	1132.0	1121.0	1119.9	1123.3
37.5°	5913.7	4885.3	2838.4	1678.7	1279.8	1148.6	1096.8	1080.2	1073.6	1079.1	1083.6
40°	6370.1	5123.4	2685.2	1524.5	1202.6	1091.2	1045.0	1033.9	1030.7	1038.4	1045.0
42.5°	6921.2	5445.3	2559.5	1413.2	1143.1	1042.8	1000.9	987.6	984.4	993.1	1002.0
45°	7517.6	5791.4	2471.3	1330.4	1096.8	1006.4	962.3	947.9	941.3	945.8	955.7
47.5°	8059.9	6118.8	2436.1	1272.0	1052.6	975.5	928.1	910.5	899.5	897.3	905.0
50°	8517.3	6362.4	2452.6	1236.7	1017.4	941.3	895.0	875.2	858.7	848.7	854.2
52.5°	8850.3	6515.6	2468.0	1221.4	989.9	903.9	858.7	840.0	817.9	801.3	801.3
55°	9091.6	6550.8	2433.9	1209.2	968.9	863.1	817.9	800.3	778.2	759.5	757.3
57.5°	9186.5	6451.7	2307.1	1191.5	954.6	824.5	774.9	761.6	742.9	720.9	719.8
60°	9058.6	6145.2	2062.4	1154.1	935.8	792.6	731.9	723.1	714.3	693.4	692.2
62.5°	8544.9	5472.8	1746.0	1078.1	898.4	758.4	692.2	696.6	697.7	683.4	681.2
65°	7613.4	4549.1	1437.4	978.9	842.1	717.6	651.4	672.4	684.5	682.4	679.0
67.5°	6259.9	3540.5	1218.0	874.1	768.2	661.4	607.4	631.6	641.6	649.3	647.1
70°	4646.1	2496.6	1007.5	763.9	679.0	595.3	550.1	562.2	555.6	564.3	567.7
72.5°	2590.4	1498.0	821.2	653.7	586.4	518.0	486.1	483.9	469.6	469.6	469.6
74°	1554.2	1098.9	722.0	585.3	530.2	467.4	439.8	429.9	416.7	417.8	416.7
75°	1250.0	944.7	662.5	540.1	490.6	437.6	410.1	396.8	386.9	386.9	385.8
77.5°	789.2	717.6	533.5	429.9	392.4	360.4	341.7	324.1	324.1	323.0	321.8
80°	596.4	570.9	415.6	325.2	300.9	276.7	264.6	256.8	256.8	260.2	259.1
82.5°	408.9	429.9	292.1	227.1	214.9	197.3	195.1	196.2	192.9	188.5	187.4
85°	298.7	323.0	197.3	143.3	131.2	120.2	128.9	133.4	127.9	117.9	113.6
87.5°	114.7	211.6	105.8	59.5	55.1	47.4	55.1	57.3	61.8	48.5	49.6
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)