

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: P318523

Luminaire Tested: **GLEON-SA9B-827-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318523
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-SA9B-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37564 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

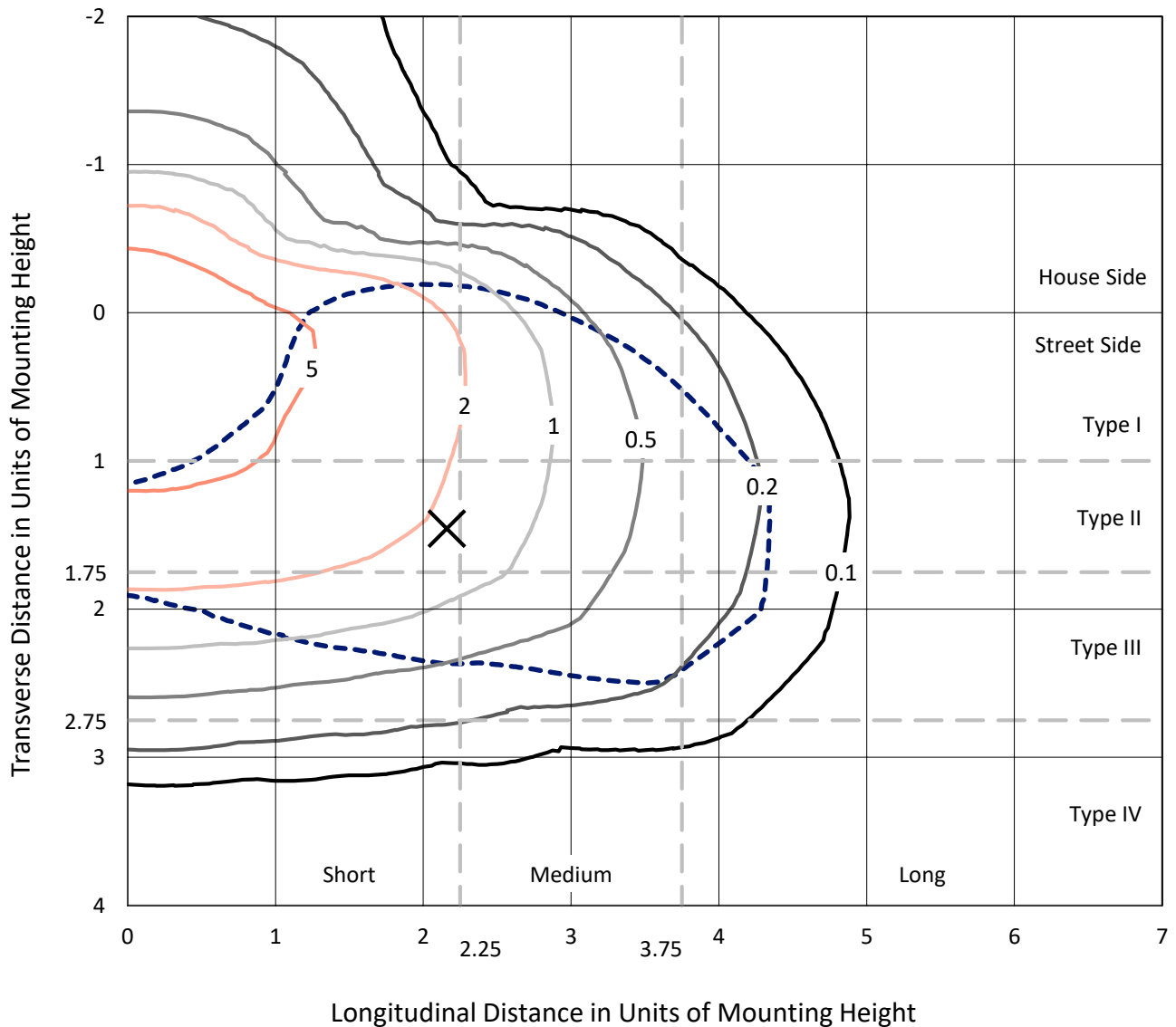
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

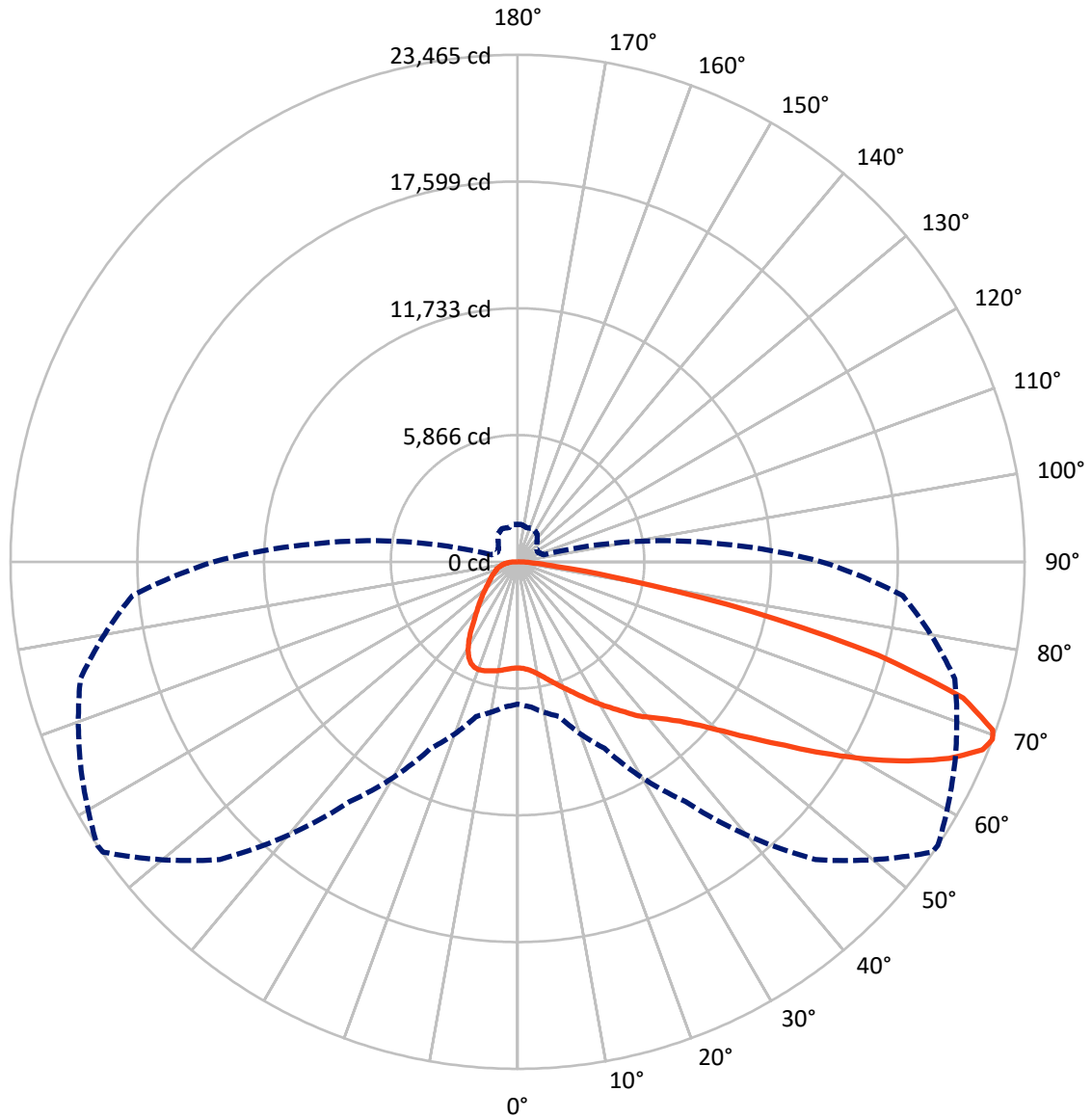
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	8365.4	0.0	8365.4
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	29198.6	0.0	29198.6
	% Fixture	77.7	0.0	77.7
Total	Lumens	37564.0	0.0	37564.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.3	1.3
10°-20°	1551.0	4.1
20°-30°	2707.4	7.2
30°-40°	3889.1	10.4
40°-50°	5382.3	14.3
50°-60°	7885.9	21.0
60°-70°	9614.3	25.6
70°-80°	5315.4	14.2
80°-90°	736.2	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°	37564.0	100.0
0°-180°	37564.0	100.0



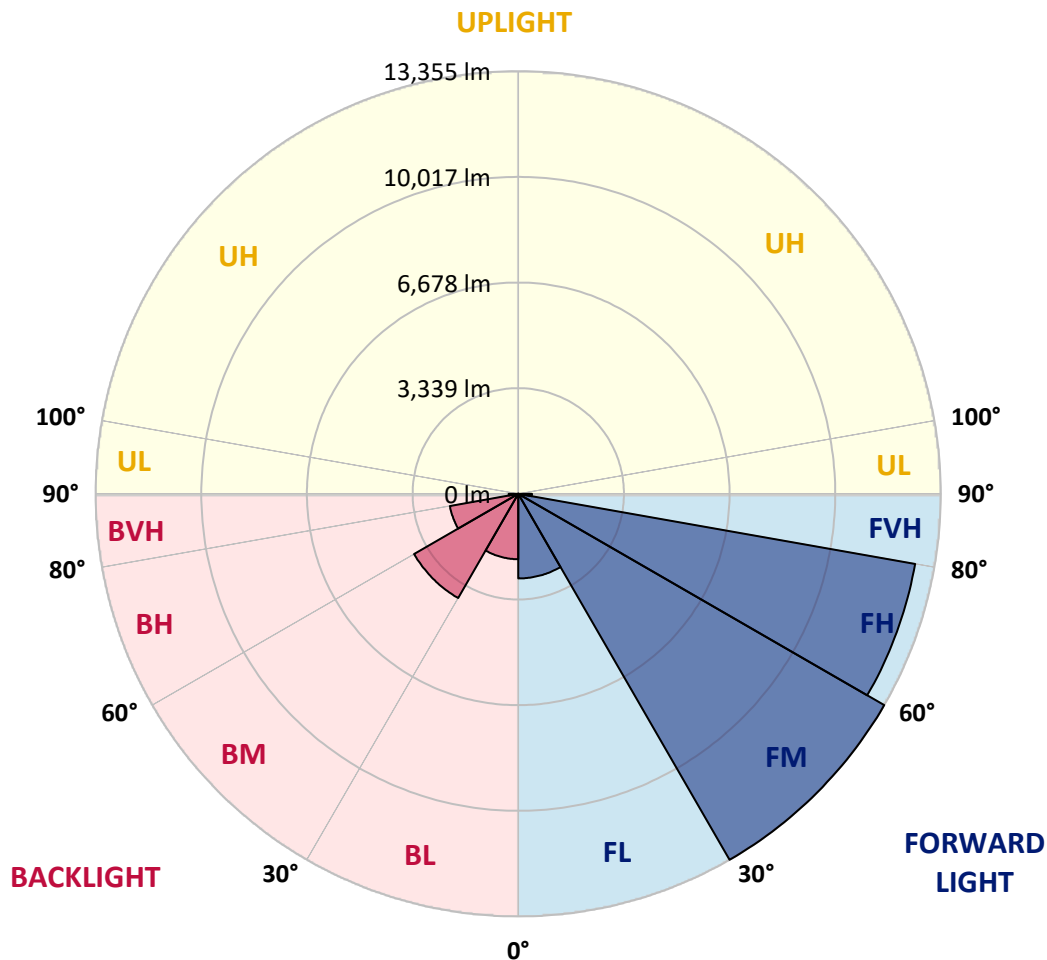
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2673.4	7.1			
FM (30°-60°)	13355.4	35.6			
FH (60°-80°)	12736.1	33.9			G5
FVH (80°-90°)	433.6	1.2			G3/500
BL (0°-30°)	2067.3	5.5	B3/2500		
BM (30°-60°)	3801.9	10.1	B3/5000		
BH (60°-80°)	2193.7	5.8	B3/2500		G3/2500
BVH (80°-90°)	302.6	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°	4910.9	4910.9	4910.9	4910.9	4910.9	4910.9	4910.9	4910.9	4910.9	4910.9	4910.9
2.5°	4942.0	4947.2	4943.3	4953.6	4942.0	4949.7	4943.3	4943.3	4939.4	4927.8	4914.8
5°	5019.6	5030.0	5023.5	5033.9	5019.6	5022.2	5010.6	5010.6	4998.9	4974.3	4948.5
7.5°	5141.3	5152.9	5147.7	5158.1	5138.7	5138.7	5123.2	5121.9	5098.6	5058.4	5028.7
10°	5286.2	5301.7	5296.6	5312.1	5296.6	5301.7	5286.2	5286.2	5255.1	5198.2	5160.7
12.5°	5497.1	5516.5	5502.3	5501.0	5494.5	5504.9	5492.0	5489.4	5460.9	5383.3	5331.5
15°	5779.2	5799.9	5770.2	5767.6	5731.4	5727.5	5727.5	5723.6	5705.5	5612.3	5526.9
17.5°	6104.0	6110.5	6084.6	6043.2	5996.6	5966.9	5963.0	5973.3	5973.3	5864.6	5728.8
20°	6422.4	6434.0	6413.3	6366.7	6307.2	6263.2	6232.2	6252.9	6251.6	6122.2	5929.3
22.5°	6769.2	6796.4	6765.3	6705.8	6635.9	6586.7	6532.4	6550.5	6551.8	6392.6	6126.0
25°	7218.2	7193.6	7174.2	7090.1	6990.5	6940.0	6889.5	6907.6	6902.5	6683.8	6329.2
27.5°	7615.5	7620.7	7594.8	7505.5	7390.3	7279.0	7276.5	7288.1	7268.7	6986.6	6520.7
30°	8077.5	8080.1	8043.8	7963.6	7838.1	7694.4	7660.8	7680.2	7638.8	7273.9	6722.6
32.5°	8536.9	8549.8	8509.7	8412.6	8311.7	8137.0	8069.7	8082.6	7979.1	7567.6	6930.9
35°	8939.3	8957.4	8944.5	8879.8	8769.8	8619.7	8539.4	8531.7	8403.6	7927.4	7206.6
37.5°	9349.5	9366.3	9352.1	9297.8	9253.8	9094.6	9051.9	9051.9	8829.3	8294.9	7557.3
40°	9771.4	9797.3	9780.4	9705.4	9667.9	9595.4	9493.2	9468.6	9227.9	8736.1	8129.2
42.5°	10163.5	10197.1	10264.4	10220.4	10144.1	10154.4	9948.7	9935.7	9759.7	9388.3	8847.4
45°	10719.9	10769.1	10883.0	10849.3	10833.8	10776.9	10532.3	10520.6	10453.4	10265.7	9739.0
47.5°	11326.8	11394.1	11599.9	11606.4	11773.3	11665.9	11333.3	11293.2	11308.7	11316.5	10827.3
50°	11885.9	11959.6	12297.4	12456.5	12849.9	12873.2	12341.4	12305.1	12366.0	12544.5	12095.5
52.5°	12332.3	12425.5	12847.3	13339.1	14013.3	14204.8	13582.4	13555.2	13600.5	13908.5	13529.3
55°	12659.7	12760.6	13220.0	14115.5	15192.2	15529.9	15011.0	14985.1	15013.6	15405.7	15088.6
57.5°	12736.1	12760.6	13427.1	14638.3	16187.3	16998.7	16759.3	16707.5	16567.7	16909.4	16809.7
60°	12377.6	12476.0	13256.3	14822.1	16957.3	18446.7	18586.5	18521.8	18129.7	18409.2	18329.0
62.5°	11650.4	11826.3	12618.3	14542.6	17258.8	19629.5	20378.7	20301.1	19625.6	19806.8	19421.1
65°	10462.4	10537.5	11369.5	13578.5	16875.7	20386.5	21976.9	21938.1	21087.9	20804.5	19623.0
67.5°	8337.6	8478.6	9185.2	11563.6	15308.6	20297.2	23212.7	23208.8	22042.9	21174.6	18907.4
69°	6586.7	6733.0	7405.9	9525.5	13546.1	19480.7	23419.8	23465.0	22312.0	20949.4	17885.1
70°	5251.3	5420.8	5882.8	8023.1	11981.6	18404.0	23247.6	23329.2	22260.3	20578.0	16941.7
72.5°	2234.8	2372.0	2700.7	4135.8	7302.3	13742.8	21256.1	21564.1	21060.7	18833.6	14001.6
75°	975.7	1018.4	1167.2	1686.1	3241.6	7479.6	16651.9	17221.2	18008.0	15919.4	10430.1
77.5°	714.3	732.4	814.0	989.9	1454.5	2824.9	10708.3	11039.6	12987.1	11584.4	6397.8
80°	552.6	565.5	628.9	727.3	949.8	1142.6	4883.8	5168.4	7302.3	5950.1	2664.5
82.5°	440.0	449.0	493.0	535.7	656.1	692.3	1621.4	1798.7	2695.5	1643.4	705.3
85°	408.9	419.3	434.8	390.8	420.6	406.3	701.4	733.7	814.0	645.7	295.0
87.5°	185.0	218.7	430.9	304.1	223.9	178.6	287.3	300.2	337.7	339.0	130.7
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°	4910.9	4910.9	4910.9	4910.9	4910.9	4910.9	4910.9	4910.9	4910.9	4910.9	4910.9
2.5°	4922.6	4918.7	4925.2	4909.6	4929.0	4927.8	4921.3	4923.9	4936.8	4935.5	4936.8
5°	4952.3	4949.7	4957.5	4945.9	4969.2	4976.9	4978.2	4989.9	5004.1	5008.0	5008.0
7.5°	5027.4	5027.4	5031.3	5015.7	5031.3	5030.0	5023.5	5035.2	5049.4	5050.7	5049.4
10°	5156.8	5158.1	5151.6	5111.5	5098.6	5063.6	5031.3	5032.6	5050.7	5064.9	5068.8
12.5°	5319.8	5314.7	5286.2	5212.4	5158.1	5086.9	5053.3	5052.0	5070.1	5081.7	5085.6
15°	5506.2	5492.0	5418.2	5297.8	5202.1	5132.2	5077.9	5064.9	5054.6	5041.6	5042.9
17.5°	5682.2	5649.8	5526.9	5360.0	5259.0	5165.9	5061.0	4976.9	4918.7	4885.0	4874.7
20°	5860.8	5797.4	5620.1	5418.2	5290.1	5120.6	4918.7	4747.9	4641.8	4592.6	4583.5
22.5°	6023.8	5921.6	5706.8	5479.0	5265.5	4967.9	4650.8	4402.4	4254.8	4188.8	4194.0
25°	6183.0	6040.6	5797.4	5521.7	5141.3	4698.7	4278.1	3972.7	3801.9	3728.2	3725.6
27.5°	6322.7	6161.0	5895.7	5486.8	4909.6	4315.7	3836.9	3539.2	3396.9	3333.5	3323.1
30°	6483.2	6312.4	6026.4	5353.5	4570.6	3873.1	3405.9	3196.3	3095.4	3032.0	3020.3
32.5°	6678.6	6518.1	6133.8	5111.5	4137.1	3411.1	3069.5	2923.3	2831.4	2760.2	2747.3
35°	6963.3	6789.9	6161.0	4764.7	3660.9	3046.2	2822.3	2672.2	2548.0	2456.1	2447.1
37.5°	7320.5	7130.2	6098.9	4315.7	3198.9	2809.4	2616.6	2431.5	2269.8	2140.4	2119.7
40°	7835.5	7548.2	5926.8	3798.0	2858.6	2626.9	2416.0	2205.1	2004.5	1853.1	1823.3
42.5°	8454.0	8038.7	5662.8	3283.0	2608.8	2441.9	2216.7	1955.3	1763.8	1656.4	1640.9
45°	9240.8	8548.5	5296.6	2832.7	2362.9	2256.8	2001.9	1761.2	1642.2	1563.2	1550.3
47.5°	10138.9	9120.5	4912.2	2466.5	2154.6	2083.4	1829.8	1674.5	1580.0	1517.9	1506.3
50°	11242.7	9766.2	4504.6	2166.2	1945.0	1875.1	1748.3	1626.6	1551.6	1503.7	1492.0
52.5°	12487.6	10494.8	4210.8	1929.4	1771.6	1721.1	1705.6	1600.7	1539.9	1503.7	1492.0
55°	13828.2	11236.3	3893.8	1730.1	1621.4	1635.7	1677.1	1603.3	1561.9	1517.9	1501.1
57.5°	15170.2	12002.3	3540.5	1561.9	1502.4	1572.3	1657.7	1608.5	1573.6	1530.9	1515.3
60°	16231.3	12487.6	2993.1	1420.9	1407.9	1502.4	1611.1	1569.7	1524.4	1525.7	1523.1
62.5°	16726.9	12461.7	2388.8	1295.3	1313.5	1407.9	1536.0	1508.9	1471.3	1521.8	1525.7
65°	16448.7	11840.6	1859.6	1181.5	1212.5	1309.6	1458.4	1479.1	1492.0	1589.1	1602.0
67.5°	15281.5	10631.9	1440.3	1081.8	1120.6	1242.3	1466.2	1611.1	1627.9	1730.1	1728.9
69°	14074.1	9498.3	1251.3	1030.1	1075.4	1259.1	1567.1	1695.2	1631.8	1740.5	1725.0
70°	13062.2	8601.6	1150.4	995.1	1054.7	1288.9	1634.4	1693.9	1612.4	1705.6	1679.7
72.5°	10060.0	6188.2	975.7	930.4	984.8	1233.2	1653.8	1656.4	1567.1	1585.2	1541.2
75°	6899.9	3910.6	851.5	842.4	878.7	1111.6	1591.7	1582.6	1449.3	1423.5	1387.2
77.5°	3804.5	1986.4	723.4	758.3	782.9	984.8	1446.8	1433.8	1323.8	1269.5	1256.5
80°	1467.5	869.6	610.8	674.2	689.7	852.8	1268.2	1256.5	1164.6	1094.8	1075.4
82.5°	553.9	455.5	504.7	583.6	578.4	704.0	1074.1	1067.6	978.3	876.1	845.0
85°	256.2	273.0	399.9	481.4	443.9	521.5	859.3	870.9	762.2	640.6	640.6
87.5°	108.7	152.7	283.4	363.6	298.9	352.0	630.2	601.7	552.6	383.0	359.7
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)