

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: P383263

Luminaire Tested: **GLEON-SA5D-735-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383263
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-SA5D-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36131.9 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

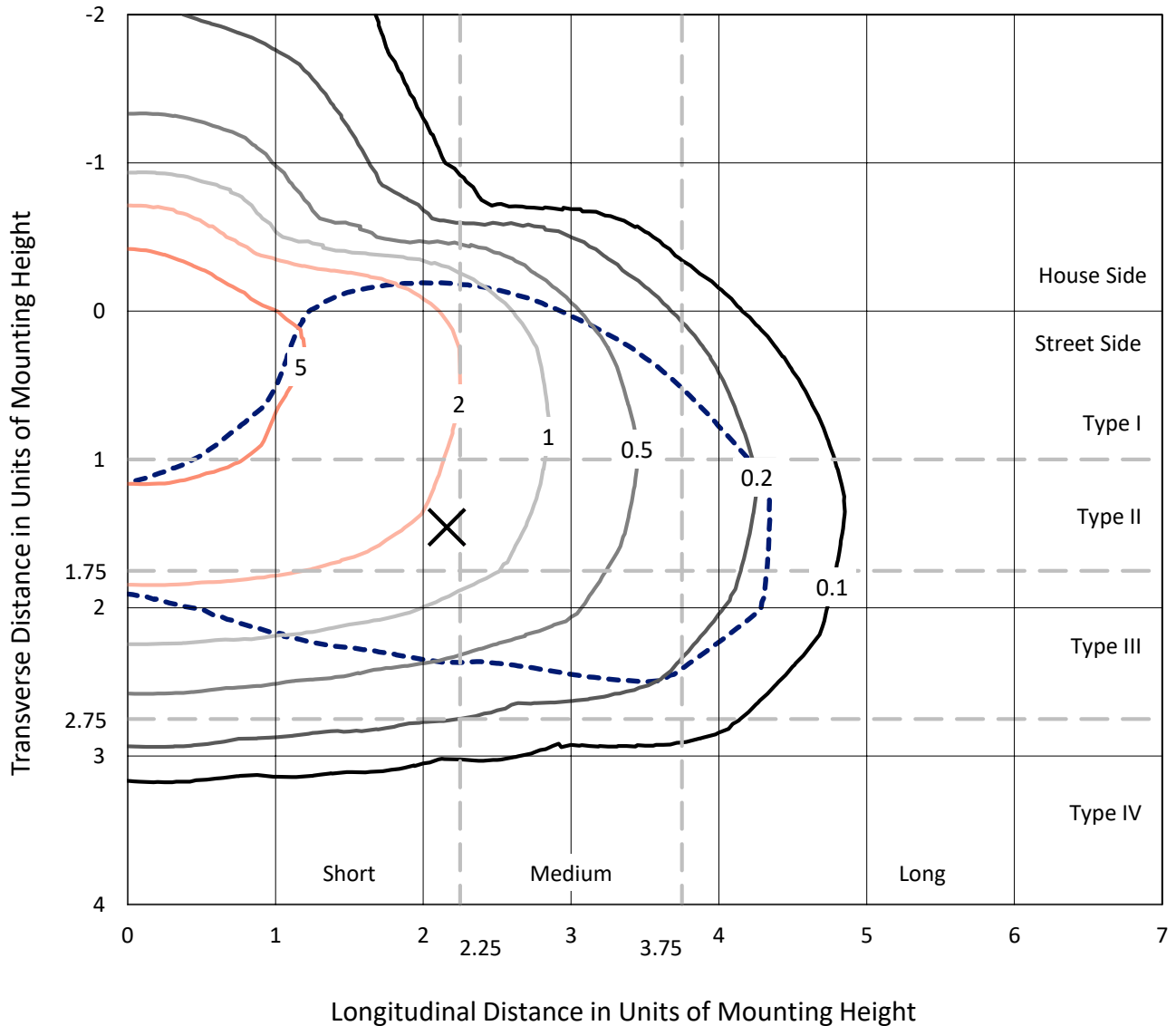
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

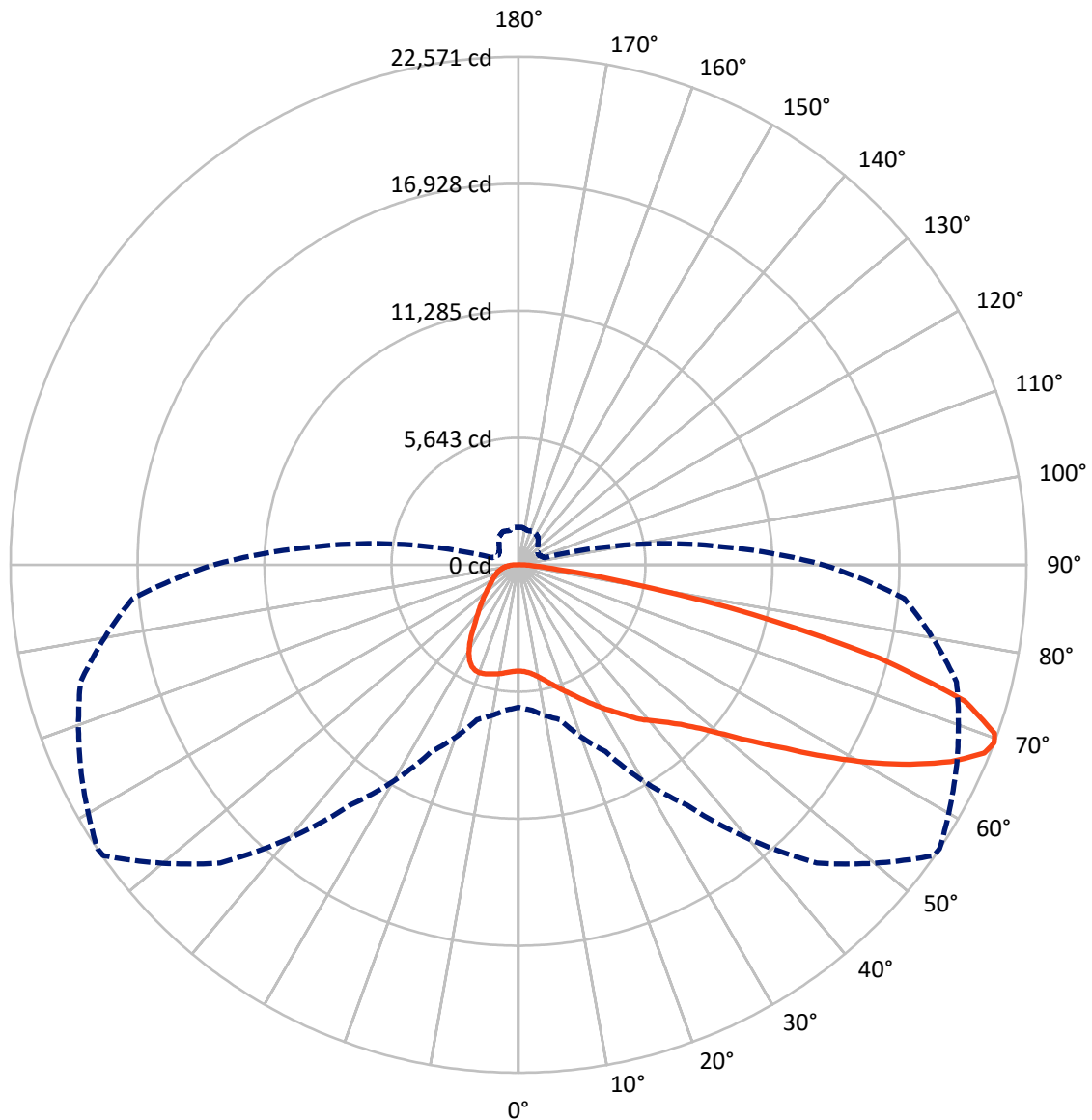
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	8046.5	0.0	8046.5
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	28085.4	0.0	28085.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	36131.9	0.0	36131.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.9	1.3
10°-20°	1491.9	4.1
20°-30°	2604.2	7.2
30°-40°	3740.9	10.4
40°-50°	5177.1	14.3
50°-60°	7585.2	21.0
60°-70°	9247.8	25.6
70°-80°	5112.8	14.2
80°-90°	708.1	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°	36131.9	100.0
0°-180°	36131.9	100.0

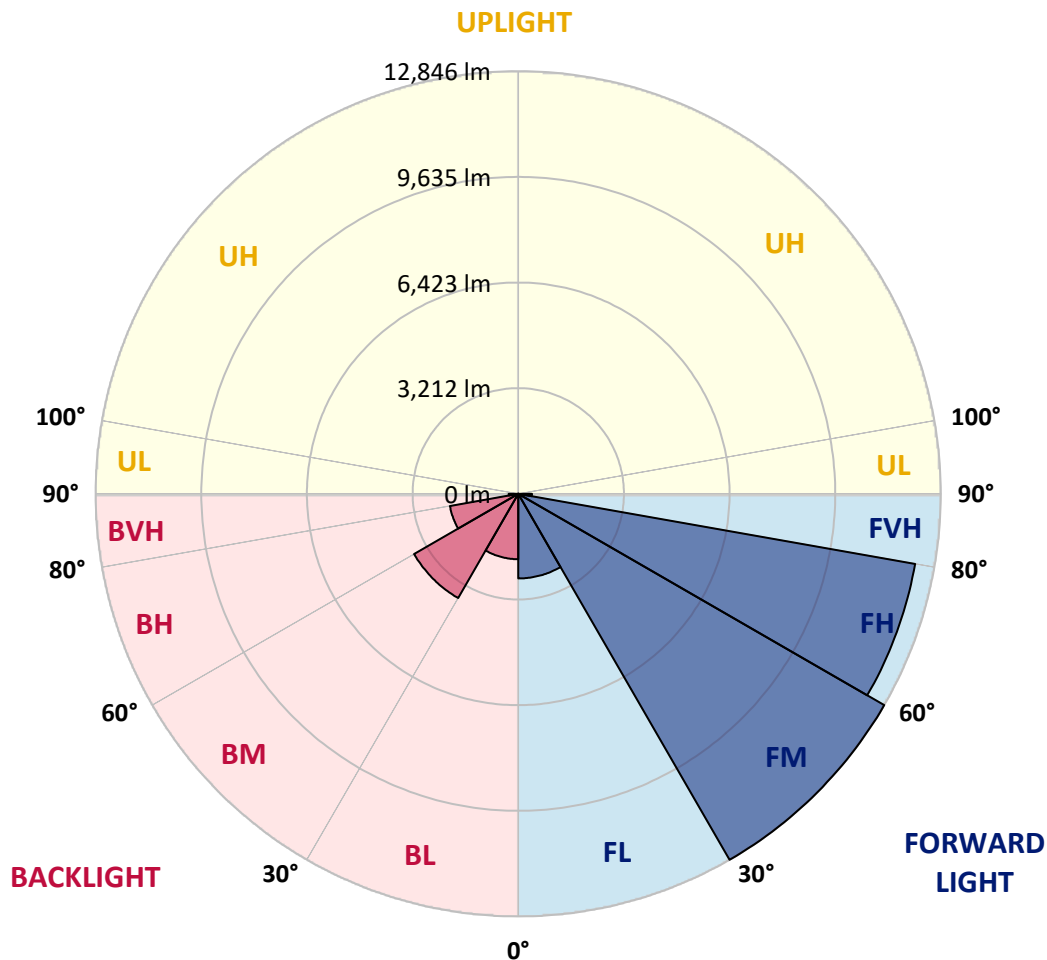


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2571.5	7.1			
FM (30°-60°)	12846.2	35.6			
FH (60°-80°)	12250.5	33.9			G5
FVH (80°-90°)	417.1	1.2			G3/500
BL (0°-30°)	1988.5	5.5	B3/2500		
BM (30°-60°)	3657.0	10.1	B3/5000		
BH (60°-80°)	2110.1	5.8	B3/2500		G3/2500
BVH (80°-90°)	291.0	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°	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7
2.5°	4753.6	4758.5	4754.8	4764.8	4753.6	4761.0	4754.8	4754.8	4751.1	4739.9	4727.4
5°	4828.3	4838.2	4832.0	4842.0	4828.3	4830.7	4819.5	4819.5	4808.4	4784.7	4759.8
7.5°	4945.3	4956.5	4951.5	4961.4	4942.8	4942.8	4927.9	4926.6	4904.2	4865.6	4837.0
10°	5084.7	5099.6	5094.6	5109.5	5094.6	5099.6	5084.7	5084.7	5054.8	5000.0	4963.9
12.5°	5287.6	5306.3	5292.6	5291.3	5285.0	5295.0	5282.6	5280.1	5252.7	5178.0	5128.3
15°	5558.9	5578.9	5550.2	5547.7	5512.9	5509.1	5509.1	5505.4	5487.9	5398.3	5316.2
17.5°	5871.4	5877.6	5852.6	5812.9	5768.0	5739.4	5735.6	5745.6	5745.6	5641.1	5510.4
20°	6177.6	6188.7	6168.8	6124.0	6066.8	6024.4	5994.6	6014.4	6013.2	5888.8	5703.3
22.5°	6511.1	6537.2	6507.4	6450.1	6382.9	6335.6	6283.4	6300.8	6302.0	6148.9	5892.5
25°	6943.0	6919.3	6900.7	6819.8	6724.0	6675.5	6626.8	6644.3	6639.3	6429.0	6087.9
27.5°	7325.1	7330.2	7305.3	7219.4	7108.5	7001.5	6999.1	7010.3	6991.5	6720.3	6272.1
30°	7769.6	7772.0	7737.2	7660.0	7539.3	7401.1	7368.7	7387.4	7347.6	6996.6	6466.3
32.5°	8211.4	8223.9	8185.2	8091.9	7994.8	7826.8	7762.0	7774.5	7674.9	7279.1	6666.7
35°	8598.6	8616.0	8603.5	8541.3	8435.4	8291.1	8213.9	8206.5	8083.2	7625.2	6931.8
37.5°	8993.1	9009.3	8995.6	8943.3	8900.9	8747.9	8706.8	8706.8	8492.7	7978.6	7269.1
40°	9398.8	9423.7	9407.6	9335.4	9299.3	9229.6	9131.2	9107.6	8876.1	8403.1	7819.3
42.5°	9776.0	9808.4	9873.1	9830.8	9757.3	9767.3	9569.4	9556.9	9387.7	9030.4	8510.2
45°	10311.2	10358.5	10468.1	10435.8	10420.8	10366.0	10130.8	10119.6	10054.8	9874.3	9367.7
47.5°	10895.0	10959.8	11157.6	11163.9	11324.5	11221.1	10901.2	10862.7	10877.6	10885.0	10414.5
50°	11432.7	11503.7	11828.6	11981.7	12360.1	12382.5	11870.9	11836.1	11894.6	12066.3	11634.4
52.5°	11862.1	11951.8	12357.5	12830.6	13479.0	13663.3	13064.6	13038.4	13082.0	13378.2	13013.5
55°	12177.1	12274.2	12716.1	13577.4	14613.0	14937.8	14438.7	14413.8	14441.2	14818.4	14513.4
57.5°	12250.5	12274.2	12915.2	14080.2	15570.2	16350.6	16120.3	16070.6	15936.2	16264.7	16168.9
60°	11905.7	12000.3	12750.9	14257.0	16310.7	17743.5	17877.9	17815.7	17438.5	17707.3	17630.2
62.5°	11206.2	11375.5	12137.2	13988.1	16600.8	18881.2	19601.8	19527.1	18877.4	19051.6	18680.7
65°	10063.5	10135.7	10936.1	13060.9	16232.4	19609.3	21139.1	21101.7	20283.9	20011.3	18874.9
67.5°	8019.7	8155.4	8835.0	11122.8	14725.1	19523.4	22327.8	22324.1	21202.5	20367.4	18186.6
69°	6335.6	6476.3	7123.5	9162.3	13029.7	18738.0	22526.9	22570.5	21461.5	20150.8	17203.3
70°	5051.0	5214.2	5658.5	7717.2	11524.8	17702.4	22361.3	22439.8	21411.6	19793.5	16295.8
72.5°	2149.6	2281.5	2597.7	3978.1	7024.0	13218.9	20445.8	20742.0	20257.8	18115.6	13467.8
75°	938.5	979.6	1122.7	1621.8	3118.0	7194.4	16017.0	16564.7	17321.5	15312.5	10032.4
77.5°	687.1	704.5	783.0	952.2	1399.1	2717.2	10300.0	10618.7	12492.0	11142.7	6153.9
80°	531.5	543.9	604.9	699.5	913.7	1099.1	4697.6	4971.4	7024.0	5723.2	2562.9
82.5°	423.2	432.0	474.3	515.3	631.0	666.0	1559.6	1730.2	2592.8	1580.8	678.4
85°	393.3	403.3	418.3	375.9	404.6	390.9	674.6	705.7	783.0	621.2	283.7
87.5°	178.0	210.3	414.4	292.5	215.4	171.8	276.3	288.8	324.8	326.1	125.8
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°	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7
2.5°	4734.9	4731.1	4737.4	4722.5	4741.1	4739.9	4733.7	4736.2	4748.6	4747.4	4748.6
5°	4763.6	4761.0	4768.5	4757.3	4779.7	4787.2	4788.4	4799.6	4813.3	4817.0	4817.0
7.5°	4835.8	4835.8	4839.5	4824.5	4839.5	4838.2	4832.0	4843.2	4856.9	4858.1	4856.9
10°	4960.2	4961.4	4955.2	4916.6	4904.2	4870.6	4839.5	4840.7	4858.1	4871.8	4875.5
12.5°	5117.1	5112.1	5084.7	5013.7	4961.4	4893.0	4860.6	4859.4	4876.8	4888.0	4891.7
15°	5296.3	5282.6	5211.6	5095.8	5003.8	4936.6	4884.3	4871.8	4861.8	4849.5	4850.7
17.5°	5465.6	5434.5	5316.2	5155.7	5058.5	4968.9	4868.1	4787.2	4731.1	4698.8	4688.9
20°	5637.4	5576.3	5405.8	5211.6	5088.4	4925.4	4731.1	4566.9	4464.8	4417.5	4408.8
22.5°	5794.1	5695.9	5489.2	5270.1	5064.7	4778.5	4473.5	4234.5	4092.7	4029.1	4034.2
25°	5947.3	5810.3	5576.3	5311.2	4945.3	4519.6	4115.0	3821.3	3657.0	3586.0	3583.6
27.5°	6081.7	5926.1	5671.0	5277.6	4722.5	4151.2	3690.6	3404.3	3267.4	3206.4	3196.4
30°	6236.1	6071.7	5796.6	5149.4	4396.3	3725.4	3276.1	3074.5	2977.4	2916.4	2905.2
32.5°	6424.0	6269.7	5900.0	4916.6	3979.4	3281.1	2952.4	2811.8	2723.5	2655.0	2642.5
35°	6697.8	6531.1	5926.1	4583.0	3521.3	2930.1	2714.7	2570.3	2450.8	2362.5	2353.7
37.5°	7041.4	6858.4	5866.3	4151.2	3076.9	2702.3	2516.9	2338.8	2183.3	2058.7	2038.9
40°	7536.8	7260.5	5700.8	3653.3	2749.6	2526.8	2323.9	2121.0	1928.0	1782.4	1753.8
42.5°	8131.8	7732.2	5446.9	3157.9	2509.3	2348.8	2132.2	1880.8	1696.5	1593.2	1578.3
45°	8888.5	8222.6	5094.6	2724.7	2272.9	2170.8	1925.6	1694.0	1579.5	1503.6	1491.1
47.5°	9752.4	8772.8	4725.0	2372.5	2072.4	2004.0	1760.1	1610.6	1519.8	1460.0	1448.8
50°	10814.1	9393.9	4332.9	2083.7	1870.8	1803.6	1681.6	1564.6	1492.4	1446.3	1435.1
52.5°	12011.6	10094.6	4050.3	1855.8	1704.0	1655.5	1640.5	1539.8	1481.3	1446.3	1435.1
55°	13301.1	10807.9	3745.4	1664.2	1559.6	1573.3	1613.2	1542.2	1502.4	1460.0	1443.9
57.5°	14591.9	11544.8	3405.6	1502.4	1445.1	1512.4	1594.5	1547.2	1513.6	1472.5	1457.6
60°	15612.5	12011.6	2879.0	1366.7	1354.3	1445.1	1549.6	1509.9	1466.3	1467.6	1465.0
62.5°	16089.2	11986.6	2297.8	1245.9	1263.4	1354.3	1477.4	1451.4	1415.2	1463.8	1467.6
65°	15821.6	11389.2	1788.7	1136.4	1166.3	1259.6	1402.8	1422.8	1435.1	1528.5	1541.0
67.5°	14698.9	10226.6	1385.4	1040.5	1077.9	1194.9	1410.3	1549.6	1565.8	1664.2	1662.9
69°	13537.5	9136.2	1203.7	990.8	1034.4	1211.1	1507.3	1630.6	1569.6	1674.2	1659.2
70°	12564.2	8273.6	1106.6	957.2	1014.5	1239.7	1572.1	1629.4	1550.9	1640.5	1615.7
72.5°	9676.5	5952.2	938.5	894.9	947.2	1186.2	1590.7	1593.2	1507.3	1524.8	1482.5
75°	6636.8	3761.5	819.0	810.4	845.2	1069.2	1531.0	1522.3	1394.1	1369.2	1334.3
77.5°	3659.5	1910.6	695.8	729.4	753.1	947.2	1391.6	1379.2	1273.3	1221.1	1208.6
80°	1411.5	836.4	587.5	648.5	663.4	820.2	1219.9	1208.6	1120.3	1053.0	1034.4
82.5°	532.8	438.1	485.4	561.4	556.4	677.1	1033.1	1026.9	941.0	842.7	812.8
85°	246.5	262.6	384.6	463.1	426.9	501.6	826.5	837.7	733.1	616.1	616.1
87.5°	104.5	146.9	272.6	349.8	287.6	338.5	606.2	578.8	531.5	368.4	346.1
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)