

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: P382848

Luminaire Tested: **GLEON-SA2A-735-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382848
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2A-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6437 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

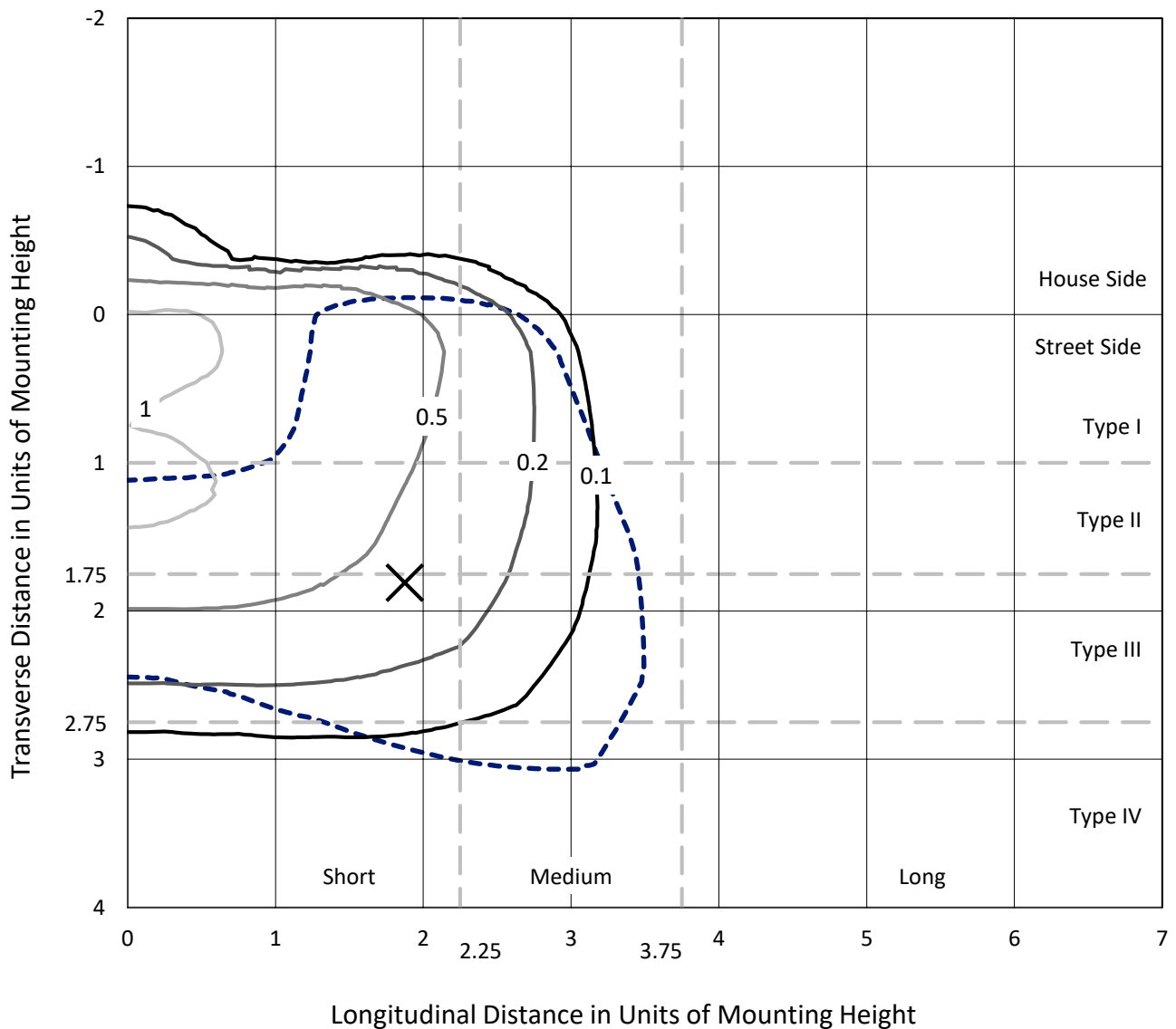
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

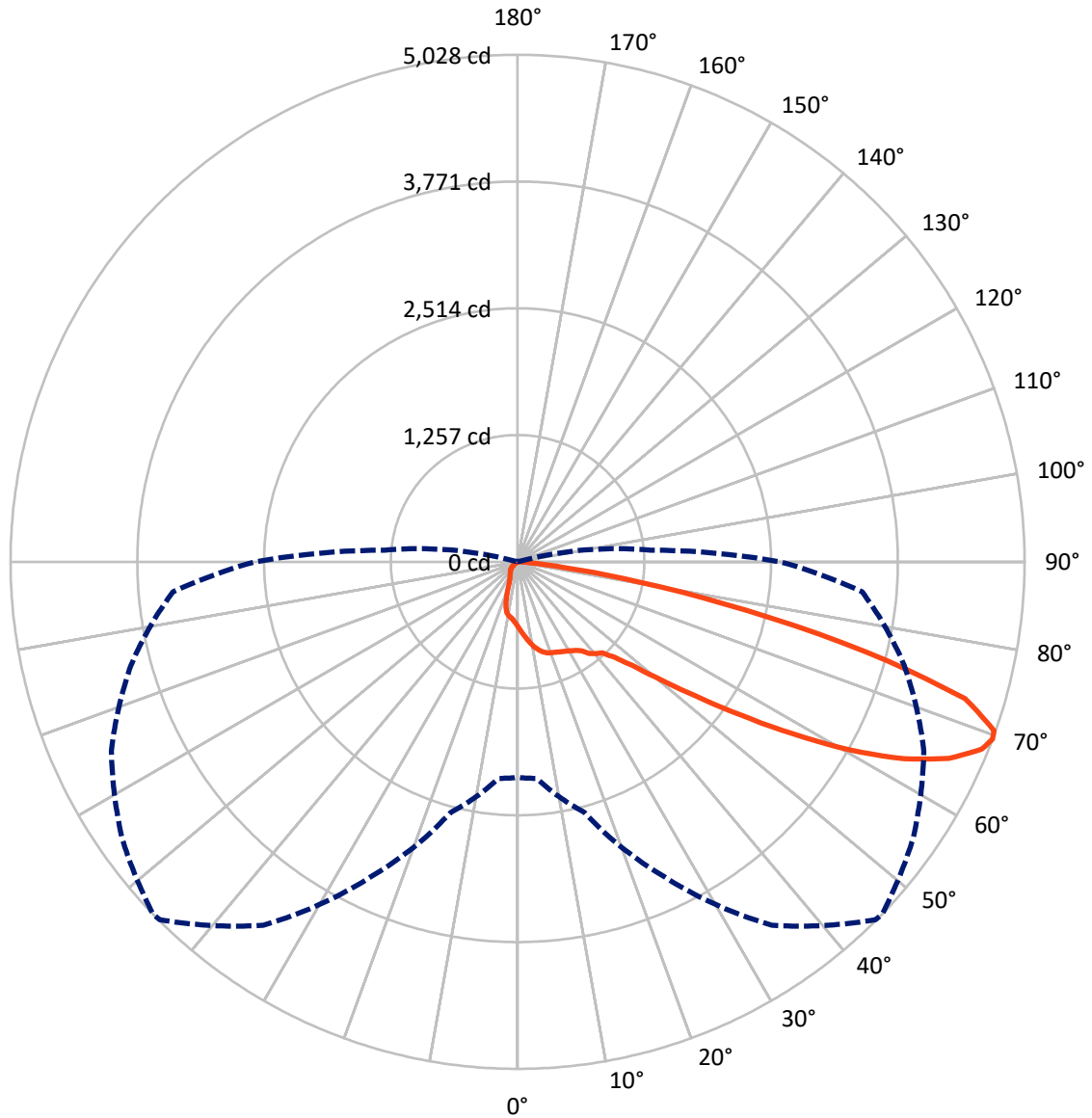
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	660.6	0.0	660.6
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	5776.4	0.0	5776.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	6437.0	0.0	6437.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	1.0
10°-20°	194.8	3.0
20°-30°	306.3	4.8
30°-40°	439.2	6.8
40°-50°	759.1	11.8
50°-60°	1499.7	23.3
60°-70°	2096.0	32.6
70°-80°	1012.6	15.7
80°-90°	65.1	1.0
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°	6437.0	100.0
0°-180°	6437.0	100.0

Coefficient of Utilization



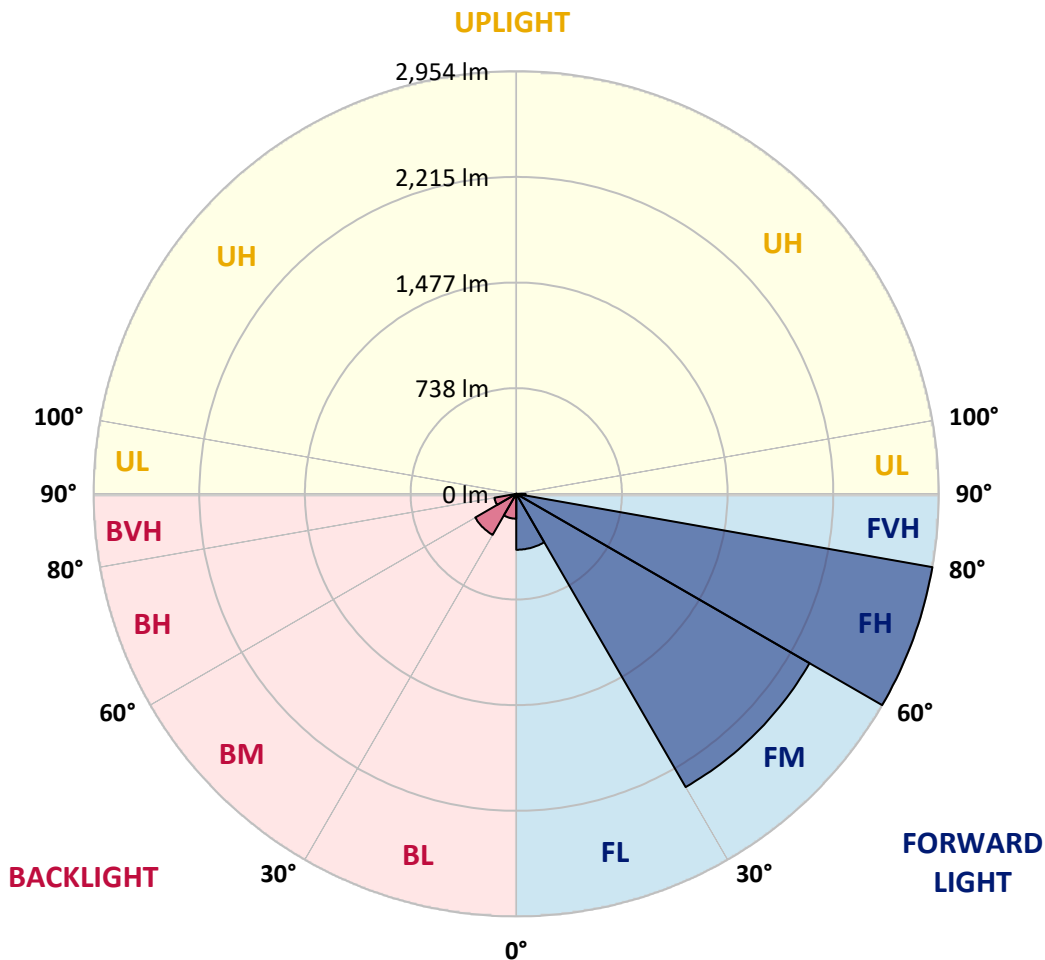
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	391.1	6.1			
FM (30°-60°)	2367.0	36.8			
FH (60°-80°)	2953.7	45.9			G2/5000
FVH (80°-90°)	64.5	1.0			G1/100
BL (0°-30°)	174.1	2.7	B1/500		
BM (30°-60°)	331.1	5.1	B1/1000		
BH (60°-80°)	154.9	2.4	B1/500		G1/500
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0
2.5°	716.5	715.6	711.3	709.6	699.3	693.3	690.8	683.3	672.4	661.6	649.5
5°	798.0	797.7	789.9	782.3	762.9	744.9	741.5	724.0	699.6	676.7	653.8
7.5°	881.2	877.3	869.5	855.0	826.9	798.0	795.3	770.5	735.8	702.6	669.7
10°	951.9	949.5	939.2	917.2	884.3	851.4	848.1	817.6	778.4	737.6	695.7
12.5°	1006.8	1005.0	991.4	964.0	928.9	894.8	890.4	863.2	821.3	775.6	726.1
15°	1040.4	1039.4	1022.8	993.6	959.1	929.6	925.7	901.8	862.9	815.2	759.3
17.5°	1048.2	1048.5	1031.3	1001.7	973.4	952.2	949.2	931.1	898.5	851.1	792.6
20°	1030.7	1034.3	1018.9	993.2	975.7	964.6	962.2	951.3	923.8	879.2	819.1
22.5°	1005.9	1007.7	997.1	980.0	972.7	974.9	973.7	967.6	944.3	903.3	845.4
25°	990.8	990.8	984.5	970.0	974.9	987.8	988.1	986.9	968.5	932.9	877.3
27.5°	990.2	988.5	981.2	970.3	983.6	1003.6	1004.7	1012.9	1001.4	968.8	917.2
30°	1014.4	1012.2	996.8	982.7	999.6	1021.0	1024.1	1041.8	1036.1	1007.7	961.5
32.5°	1070.8	1063.3	1029.2	1005.9	1018.6	1044.3	1048.2	1076.6	1085.6	1055.7	1004.4
35°	1148.0	1124.2	1075.0	1049.9	1051.2	1078.1	1081.7	1123.4	1150.2	1099.8	1037.7
37.5°	1254.6	1242.9	1162.9	1095.9	1101.3	1142.1	1152.6	1197.9	1190.3	1123.9	1075.4
40°	1488.2	1469.8	1384.7	1224.4	1149.3	1194.0	1197.2	1221.4	1222.0	1178.6	1153.8
42.5°	1806.4	1798.8	1709.1	1457.7	1243.7	1228.6	1234.7	1275.5	1321.0	1293.8	1292.6
45°	2158.5	2154.6	2059.6	1767.4	1434.8	1342.5	1350.0	1404.6	1491.9	1497.8	1536.2
47.5°	2442.0	2440.1	2385.5	2112.9	1727.3	1535.3	1537.7	1595.6	1749.0	1824.7	1886.0
50°	2700.3	2709.0	2665.9	2486.9	2125.6	1837.4	1831.7	1870.3	2116.6	2240.7	2316.7
52.5°	3059.4	3071.8	2950.8	2835.8	2543.6	2212.2	2207.8	2248.2	2558.4	2651.4	2665.0
55°	3376.6	3355.5	3259.9	3226.6	3053.4	2675.2	2674.0	2709.6	2985.8	3025.3	3050.4
57.5°	3516.7	3508.5	3554.7	3630.7	3587.3	3222.4	3219.7	3192.5	3368.2	3372.4	3449.3
60°	3605.1	3615.1	3756.6	3991.1	4099.5	3811.2	3793.7	3628.0	3733.4	3724.0	3806.4
62.5°	3538.7	3558.3	3813.0	4203.9	4482.8	4325.2	4300.5	4027.0	4045.4	4013.1	4089.8
65°	3186.2	3216.6	3634.1	4163.7	4672.9	4727.0	4701.9	4379.2	4293.2	4240.1	4197.6
67.5°	2587.1	2605.2	3041.0	3814.5	4587.1	4966.5	4961.4	4688.0	4480.4	4201.7	3871.6
69°	2138.0	2155.8	2575.4	3446.9	4398.6	5017.9	5027.8	4786.9	4444.7	3968.8	3430.3
70°	1810.8	1829.8	2220.7	3131.9	4179.8	4994.0	5011.8	4777.6	4342.7	3699.0	3043.1
72.5°	949.8	966.1	1367.2	2157.7	3407.4	4585.6	4639.7	4373.8	3681.1	2686.4	1799.4
75°	298.5	307.9	533.9	1127.8	2333.0	3565.6	3577.9	3431.0	2613.9	1477.6	749.4
77.5°	113.7	111.0	177.7	415.6	1179.4	2245.1	2320.9	2144.0	1371.7	522.4	172.9
80°	61.3	61.6	92.3	172.1	504.6	1153.8	1217.8	1039.1	487.4	163.0	39.9
82.5°	26.5	27.8	51.9	91.1	231.8	425.5	457.6	380.9	186.2	109.5	14.8
85°	5.8	6.3	25.1	49.5	94.5	119.5	125.3	123.4	118.6	85.1	5.8
87.5°	0.0	0.0	11.2	17.8	23.8	27.2	23.8	31.1	65.5	57.4	3.0
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°	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0
2.5°	645.6	640.2	630.8	620.5	613.2	605.7	599.7	596.9	594.0	591.8	594.6
5°	644.4	633.8	615.7	598.1	585.5	575.2	566.8	563.5	560.1	557.7	557.4
7.5°	654.9	640.2	612.4	586.7	567.1	553.2	541.8	536.9	533.0	531.2	529.7
10°	675.2	656.1	619.0	585.5	560.1	536.6	511.9	492.9	480.5	474.7	472.7
12.5°	701.4	677.5	631.7	591.8	555.0	509.7	457.2	411.9	382.7	373.0	367.3
15°	732.2	702.6	648.3	600.0	536.3	453.6	364.6	305.5	278.3	272.9	266.8
17.5°	761.7	729.1	668.2	601.5	495.3	362.5	267.1	226.9	216.4	220.0	221.0
20°	787.7	755.4	687.9	588.2	420.7	271.9	206.7	196.7	200.7	207.6	208.9
22.5°	814.0	780.7	705.9	553.2	325.4	206.4	186.2	188.6	192.6	199.5	200.7
25°	845.9	811.6	722.8	489.0	244.2	175.7	176.9	180.4	184.4	190.8	191.3
27.5°	882.8	850.5	734.0	405.3	181.1	161.4	165.3	170.8	174.8	180.8	182.0
30°	931.6	901.8	737.6	318.7	151.8	148.8	150.6	157.2	163.0	168.4	169.4
32.5°	977.6	952.5	725.6	240.5	140.7	137.0	137.0	140.9	147.6	152.7	153.9
35°	1019.8	1003.6	686.9	176.0	132.2	126.1	123.2	123.2	127.3	131.6	132.8
37.5°	1075.7	1075.0	624.4	140.4	124.1	117.1	110.8	105.9	104.4	105.4	105.9
40°	1171.3	1172.3	542.9	125.9	117.1	107.8	98.1	89.3	81.2	78.4	78.2
42.5°	1320.7	1307.1	457.6	119.0	111.0	98.1	83.6	71.8	59.2	55.2	55.0
45°	1557.9	1477.3	367.0	112.5	104.7	87.2	69.1	53.1	42.9	39.9	39.9
47.5°	1903.5	1701.0	284.3	105.6	96.3	74.8	52.2	38.3	31.4	29.9	30.2
50°	2260.9	1920.1	217.9	96.9	86.0	61.9	38.7	27.8	23.8	23.8	24.1
52.5°	2577.8	2080.7	169.9	87.6	73.3	48.6	29.3	21.7	19.9	19.7	19.9
55°	2874.4	2184.2	130.0	76.7	58.2	36.2	22.4	17.8	16.6	16.0	15.6
57.5°	3160.6	2235.5	97.4	61.9	42.3	26.3	17.8	15.1	13.9	12.9	12.7
60°	3351.0	2193.8	67.0	45.6	29.3	19.0	14.8	12.9	11.5	10.5	10.2
62.5°	3458.4	2080.1	43.1	32.9	20.9	14.2	11.7	10.9	8.8	7.8	7.8
65°	3415.0	1892.3	30.2	23.6	15.1	10.5	8.8	8.8	6.3	5.1	4.8
67.5°	3026.2	1598.6	22.9	17.5	10.9	7.8	6.6	7.5	3.9	2.4	2.4
69°	2603.7	1324.9	19.7	14.5	9.0	6.3	5.8	7.0	2.7	1.8	1.5
70°	2262.9	1142.9	17.8	12.7	7.5	5.4	5.1	6.6	2.7	1.5	1.2
72.5°	1353.9	637.5	13.6	9.0	4.8	4.2	4.2	7.5	2.7	1.5	1.2
75°	547.2	224.5	10.0	6.3	3.6	3.6	5.1	9.7	2.4	1.2	0.9
77.5°	124.1	49.2	5.8	3.9	2.4	3.6	6.1	7.5	1.5	0.6	0.0
80°	30.2	12.1	3.6	2.4	1.5	2.7	4.6	4.2	0.3	0.0	0.0
82.5°	10.0	4.2	1.5	1.2	0.3	0.9	2.1	1.2	0.0	0.0	0.0
85°	4.2	2.4	0.6	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0
87.5°	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)