

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: P451400

Luminaire Tested: **GALN-SA2B-730-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451400
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7651 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

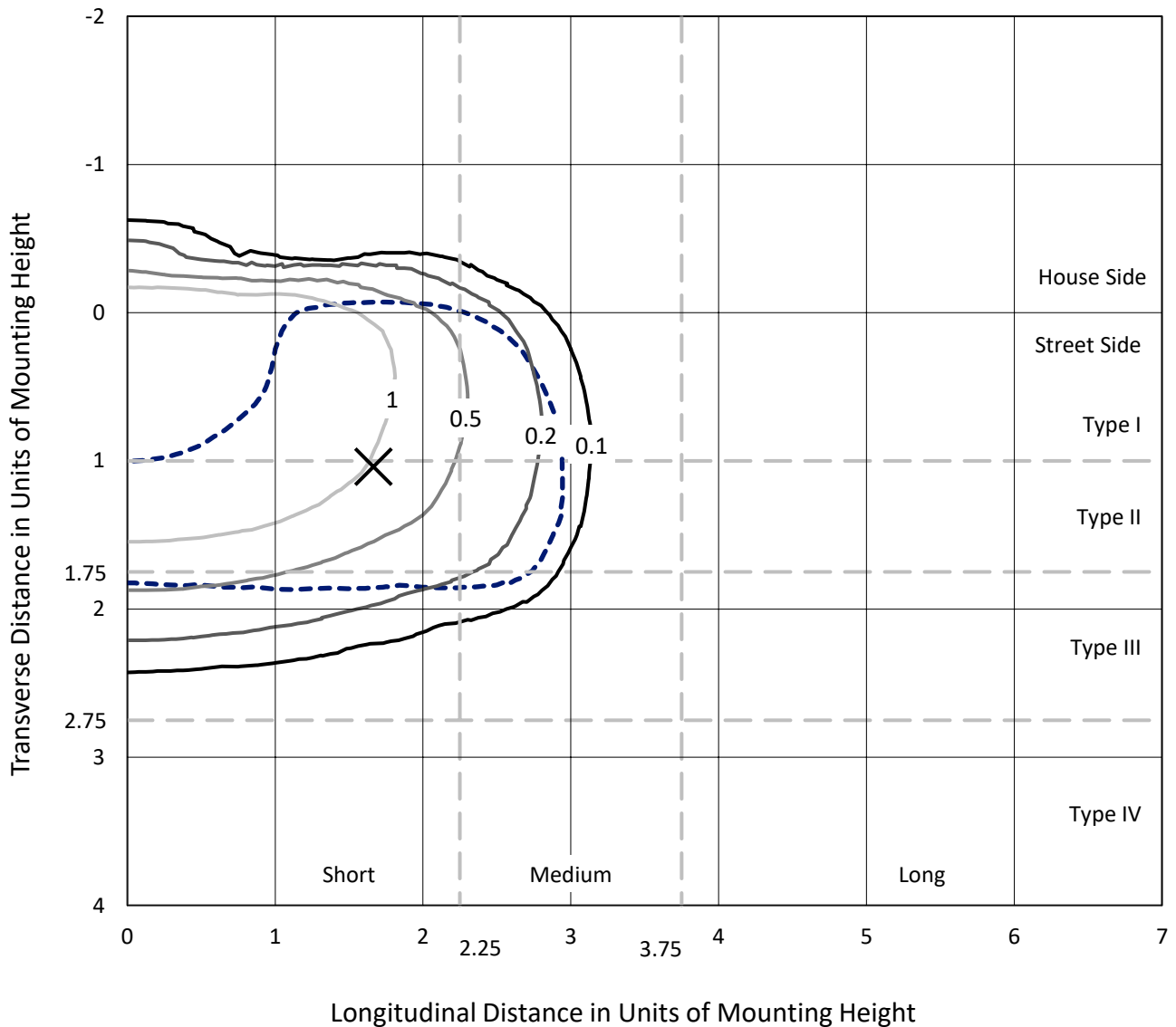
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

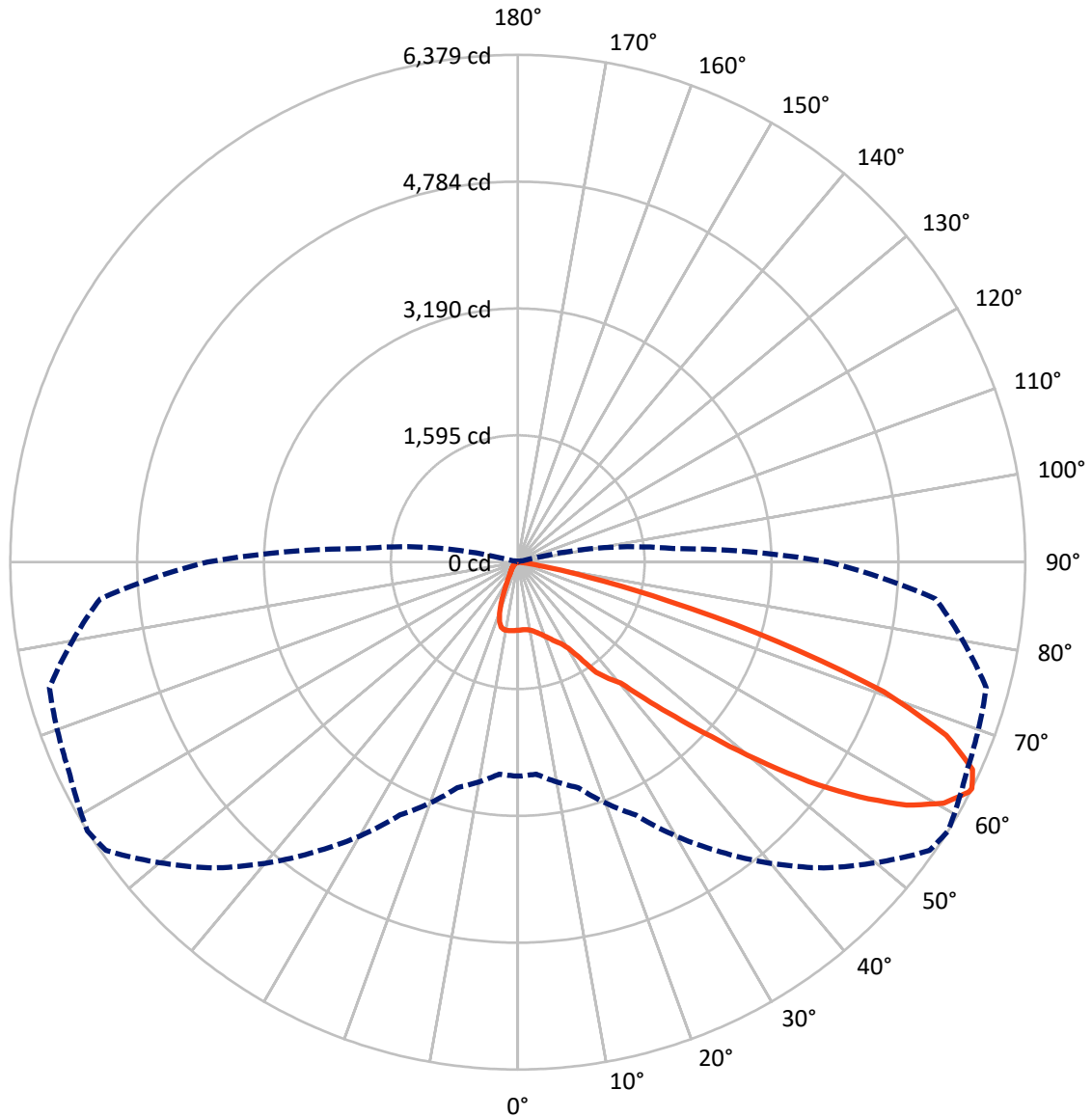
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	792.2	0.0	792.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	6858.8	0.0	6858.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	7651.0	0.0	7651.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.2	1.0
10°-20°	218.4	2.9
20°-30°	379.0	5.0
30°-40°	696.5	9.1
40°-50°	1311.2	17.1
50°-60°	2242.7	29.3
60°-70°	2147.4	28.1
70°-80°	547.6	7.2
80°-90°	28.0	0.4
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°	7651.0	100.0
0°-180°	7651.0	100.0

Coefficient of Utilization



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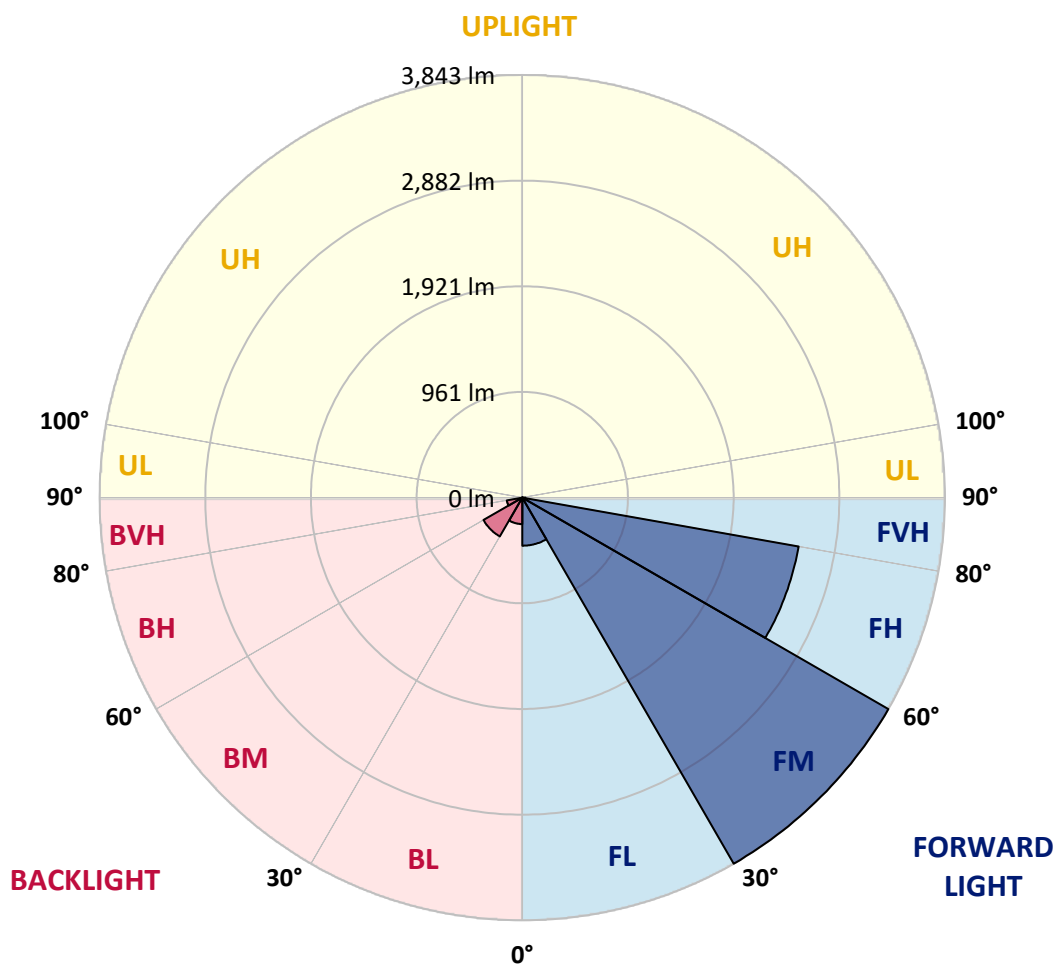
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	437.4	5.7			
FM (30°-60°)	3842.9	50.2			
FH (60°-80°)	2551.6	33.3			G2/5000
FVH (80°-90°)	26.9	0.4			G1/100
BL (0°-30°)	240.3	3.1	B1/500		
BM (30°-60°)	407.5	5.3	B1/1000		
BH (60°-80°)	143.4	1.9	B1/500		G1/500
BVH (80°-90°)	1.1	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6
2.5°	835.2	838.1	841.0	842.2	846.2	850.2	853.1	852.5	857.1	859.4	859.4
5°	801.8	801.8	809.3	816.2	827.8	839.3	850.2	852.5	861.2	869.2	872.1
7.5°	773.6	775.3	781.1	793.8	809.3	829.5	851.4	856.6	871.5	889.4	896.9
10°	760.4	761.5	769.0	782.3	801.8	829.5	860.0	869.8	892.8	921.1	931.4
12.5°	757.5	759.2	766.7	781.7	804.1	837.6	879.0	889.4	922.8	959.1	974.6
15°	762.7	763.8	771.3	787.4	812.2	852.0	904.4	918.8	958.5	1000.6	1020.7
17.5°	781.1	779.9	785.1	798.4	826.0	869.8	934.9	952.2	998.8	1056.4	1069.7
20°	859.4	852.0	847.3	835.8	846.8	895.2	971.8	997.1	1054.7	1113.5	1122.7
22.5°	1028.2	1011.5	978.7	933.7	899.2	929.7	1016.1	1045.5	1119.8	1177.4	1177.4
25°	1243.1	1221.8	1188.9	1091.0	1006.3	986.7	1066.2	1103.1	1190.7	1248.8	1229.8
27.5°	1512.1	1495.4	1431.4	1317.4	1187.8	1086.4	1124.4	1158.4	1253.4	1323.7	1284.0
30°	1731.0	1722.9	1670.5	1568.5	1425.7	1277.6	1232.7	1255.2	1337.0	1418.2	1377.3
32.5°	1915.9	1915.9	1862.3	1767.3	1633.6	1502.3	1416.5	1432.6	1510.9	1604.8	1528.8
35°	2119.2	2112.3	2069.1	1978.7	1828.9	1713.1	1678.0	1699.9	1770.7	1840.4	1653.2
37.5°	2332.9	2330.6	2285.7	2198.1	2076.0	1930.3	1847.9	1853.7	1890.0	1932.6	1798.9
40°	2565.1	2568.5	2509.8	2455.6	2340.4	2191.2	2033.4	1997.1	2031.1	2151.5	2068.0
42.5°	2839.3	2831.2	2805.9	2732.1	2639.4	2550.1	2360.6	2347.3	2377.3	2506.3	2415.9
45°	3157.8	3169.3	3125.5	3084.6	3022.4	2948.1	2789.7	2766.7	2799.5	3000.0	2871.5
47.5°	3476.9	3466.0	3494.2	3486.7	3520.1	3464.8	3324.9	3277.6	3356.5	3546.6	3357.7
50°	3720.0	3732.1	3790.9	3876.7	4020.1	4051.2	3917.0	3900.9	3936.0	4058.1	3792.6
52.5°	3877.8	3918.2	4010.3	4231.0	4489.6	4690.6	4588.7	4580.0	4565.6	4598.5	4208.5
55°	3981.0	4021.9	4142.2	4467.1	4912.4	5239.0	5244.2	5207.3	5112.3	5088.7	4597.3
57.5°	3917.6	3925.7	4097.3	4531.6	5146.8	5630.1	5799.5	5762.6	5586.9	5497.6	4940.6
60°	3521.3	3538.0	3777.0	4287.4	5044.9	5758.0	6167.6	6150.9	5958.5	5857.7	5207.9
62.5°	2819.1	2867.5	3113.5	3682.6	4570.8	5542.6	6316.8	6364.0	6214.2	6075.4	5292.0
63°	2690.1	2674.5	2934.3	3506.3	4445.2	5436.0	6319.1	6379.0	6225.7	6096.1	5269.0
65°	1991.3	2038.0	2206.8	2765.0	3699.3	4940.0	6176.8	6282.8	6183.1	6004.6	5013.8
67.5°	1118.1	1115.8	1302.4	1809.3	2589.3	3875.0	5585.2	5809.3	5788.5	5388.2	4156.1
70°	547.2	555.9	632.5	937.8	1501.7	2673.4	4641.1	4883.0	4890.5	4232.1	2873.8
72.5°	247.7	251.7	306.4	456.8	771.9	1423.4	3198.1	3429.1	3386.5	2697.0	1587.0
75°	130.8	139.4	168.8	229.8	372.1	587.0	1739.6	1963.1	1873.8	1232.1	584.1
77.5°	96.8	99.7	114.6	146.3	199.3	228.7	750.6	892.8	836.4	445.8	193.5
80°	70.9	73.2	85.3	103.7	125.6	116.4	282.8	324.3	290.9	151.5	59.3
82.5°	43.2	43.8	62.2	77.2	78.9	65.1	93.3	100.2	104.8	85.3	32.3
85°	15.6	19.6	42.1	55.9	46.7	32.8	39.2	43.2	47.2	54.1	19.0
87.5°	1.7	2.3	20.2	27.1	13.2	12.1	14.4	16.1	17.3	20.2	9.2
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°	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6
2.5°	861.7	864.0	862.3	859.4	858.9	857.1	853.7	853.7	853.7	854.8	853.7
5°	874.4	876.1	872.1	866.4	860.0	852.0	843.3	838.1	837.6	836.4	833.5
7.5°	898.6	900.9	891.7	877.9	860.6	841.0	822.6	805.3	797.2	790.9	790.9
10°	933.7	936.1	917.6	892.8	858.3	818.5	774.8	735.0	703.9	689.5	686.1
12.5°	975.8	976.9	946.4	903.2	846.2	769.6	676.3	589.3	528.8	501.1	498.3
15°	1021.9	1013.8	973.5	907.2	811.6	668.8	507.5	400.9	338.1	319.7	326.6
17.5°	1068.5	1053.6	994.2	900.9	733.9	507.5	341.0	273.6	254.0	248.8	248.8
20°	1112.3	1091.6	1009.2	873.3	599.1	349.7	252.9	236.7	233.3	229.8	230.4
22.5°	1156.1	1124.4	1022.5	811.6	446.4	250.0	226.4	221.2	216.6	212.0	211.4
25°	1198.7	1154.9	1027.6	697.6	304.1	214.9	206.8	199.9	190.7	185.5	184.3
27.5°	1243.1	1191.8	1024.2	553.6	221.8	192.4	184.3	174.5	163.6	154.4	154.4
30°	1328.3	1262.1	1012.1	398.0	186.6	169.4	159.0	143.4	131.3	122.1	121.5
32.5°	1444.7	1353.7	970.6	280.0	165.9	149.2	133.6	116.4	103.7	96.8	96.8
35°	1548.4	1445.8	892.8	206.2	149.2	129.6	110.6	93.9	84.1	79.5	77.8
37.5°	1706.2	1580.6	785.7	167.6	133.1	112.3	92.7	77.2	69.1	65.7	65.7
40°	1943.0	1745.4	654.4	146.9	117.5	95.6	77.2	65.1	58.8	54.7	54.7
42.5°	2236.7	1947.0	521.3	131.9	103.1	82.4	64.5	55.3	49.5	46.7	46.1
45°	2606.5	2159.5	401.5	118.1	91.6	70.3	54.7	46.7	40.9	39.2	39.7
47.5°	2992.5	2346.8	311.1	106.0	79.5	59.3	46.7	40.3	36.3	34.0	34.0
50°	3322.0	2475.8	236.2	92.2	70.3	50.1	40.9	36.3	32.8	31.7	31.1
52.5°	3597.3	2513.2	180.9	80.1	61.6	43.2	36.3	32.8	30.0	28.2	28.2
55°	3831.8	2480.4	141.7	67.4	51.8	37.4	32.3	29.4	25.9	24.2	23.6
57.5°	3968.9	2375.0	108.3	55.9	42.1	31.1	28.2	24.8	20.7	17.9	17.9
60°	4038.0	2221.8	82.9	46.1	32.3	24.8	23.0	18.4	14.4	12.1	11.5
62.5°	3955.0	2018.4	62.8	36.3	24.2	18.4	15.6	13.2	9.2	6.9	6.9
63°	3903.8	1959.7	60.5	34.6	22.5	17.3	14.4	12.1	8.1	6.3	5.8
65°	3558.7	1703.3	49.5	27.6	17.9	12.1	9.8	8.6	5.8	2.9	2.3
67.5°	2826.0	1303.0	39.2	20.7	12.7	8.6	5.8	5.2	1.7	0.0	0.0
70°	1910.7	841.6	30.5	15.0	8.6	5.2	2.9	2.3	0.6	0.0	0.0
72.5°	996.5	431.4	23.6	10.9	5.2	3.5	1.7	0.6	0.0	0.0	0.0
75°	352.5	146.9	17.3	6.9	3.5	1.7	0.6	0.0	0.0	0.0	0.0
77.5°	106.6	54.7	10.9	5.2	2.3	1.2	0.0	0.0	0.0	0.0	0.0
80°	37.4	20.2	6.3	3.5	1.7	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	18.4	9.8	4.0	2.9	1.7	0.6	0.0	0.0	0.0	0.0	0.0
85°	10.4	6.3	3.5	2.9	1.7	1.2	0.0	0.0	0.0	0.0	0.0
87.5°	7.5	4.6	3.5	2.9	2.3	1.2	0.6	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)