

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: P450702

Luminaire Tested: **GALN-SA1C-730-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5187 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

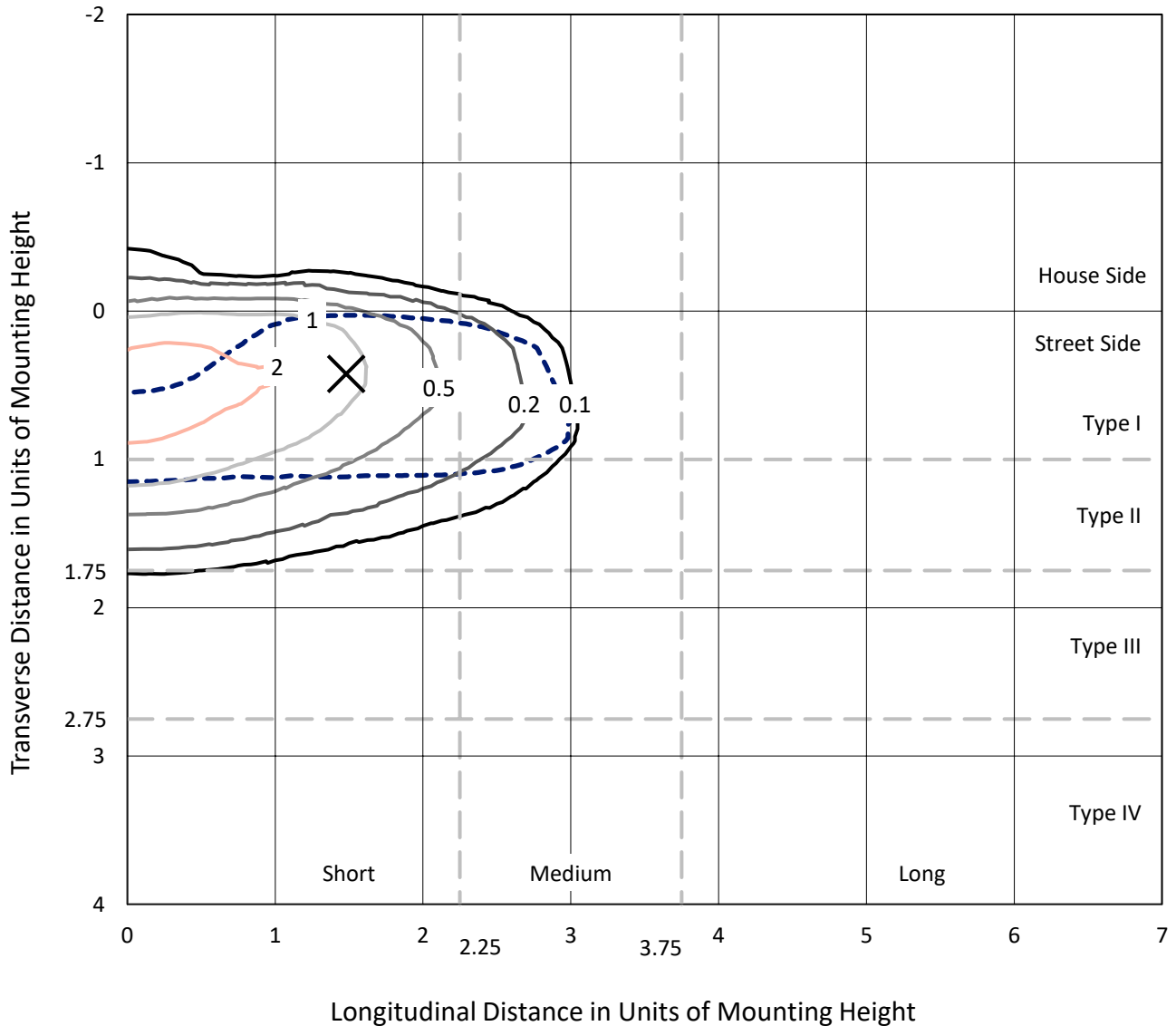
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

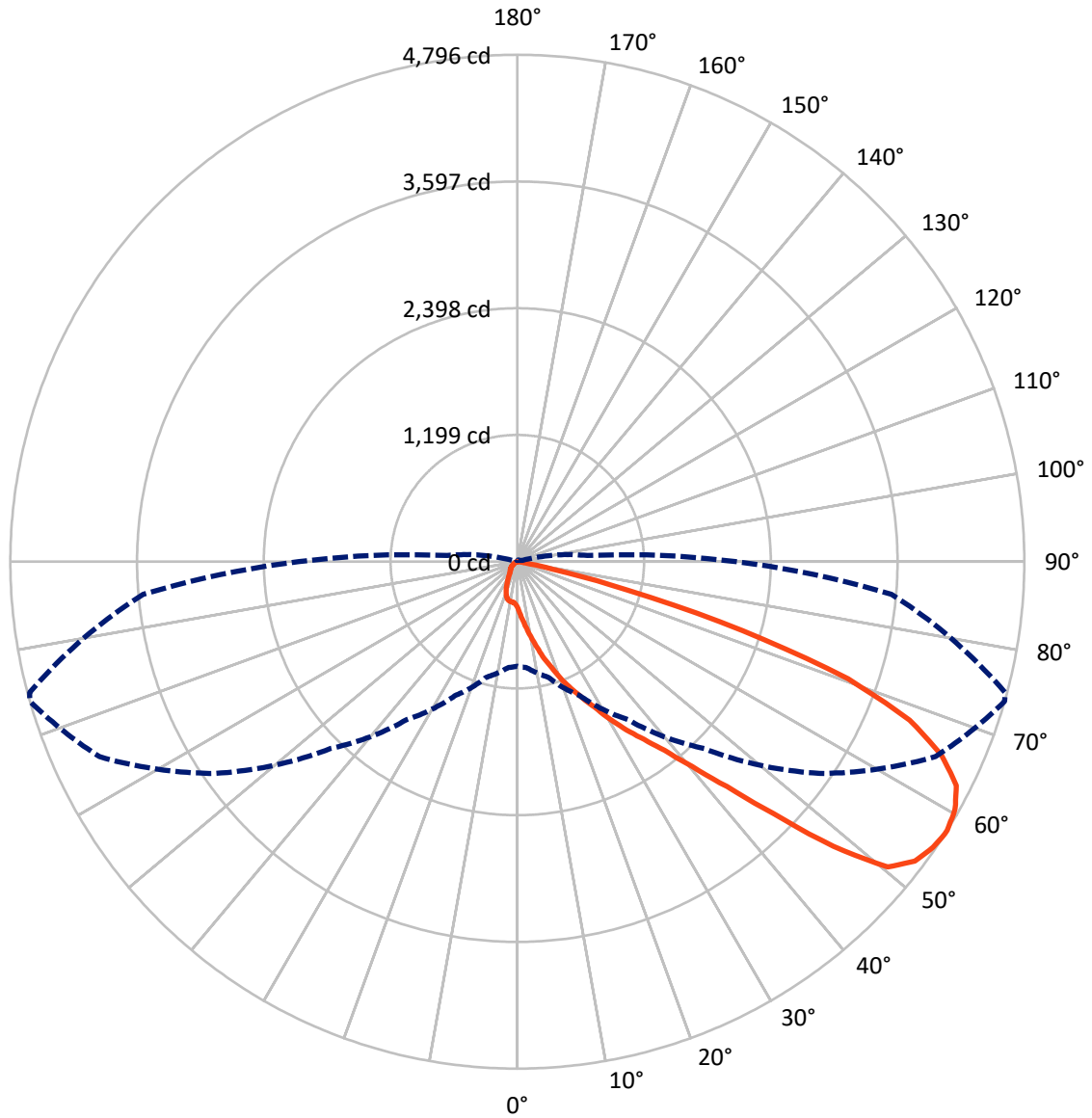
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	299.2	0.0	299.2
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	4887.8	0.0	4887.8
	% Fixture	94.2	0.0	94.2
Total	Lumens	5187.0	0.0	5187.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.4	1.0
10°-20°	206.7	4.0
20°-30°	442.2	8.5
30°-40°	812.8	15.7
40°-50°	1246.1	24.0
50°-60°	1318.1	25.4
60°-70°	860.8	16.6
70°-80°	235.2	4.5
80°-90°	12.7	0.2
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°	5187.0	100.0
0°-180°	5187.0	100.0

Coefficient of Utilization



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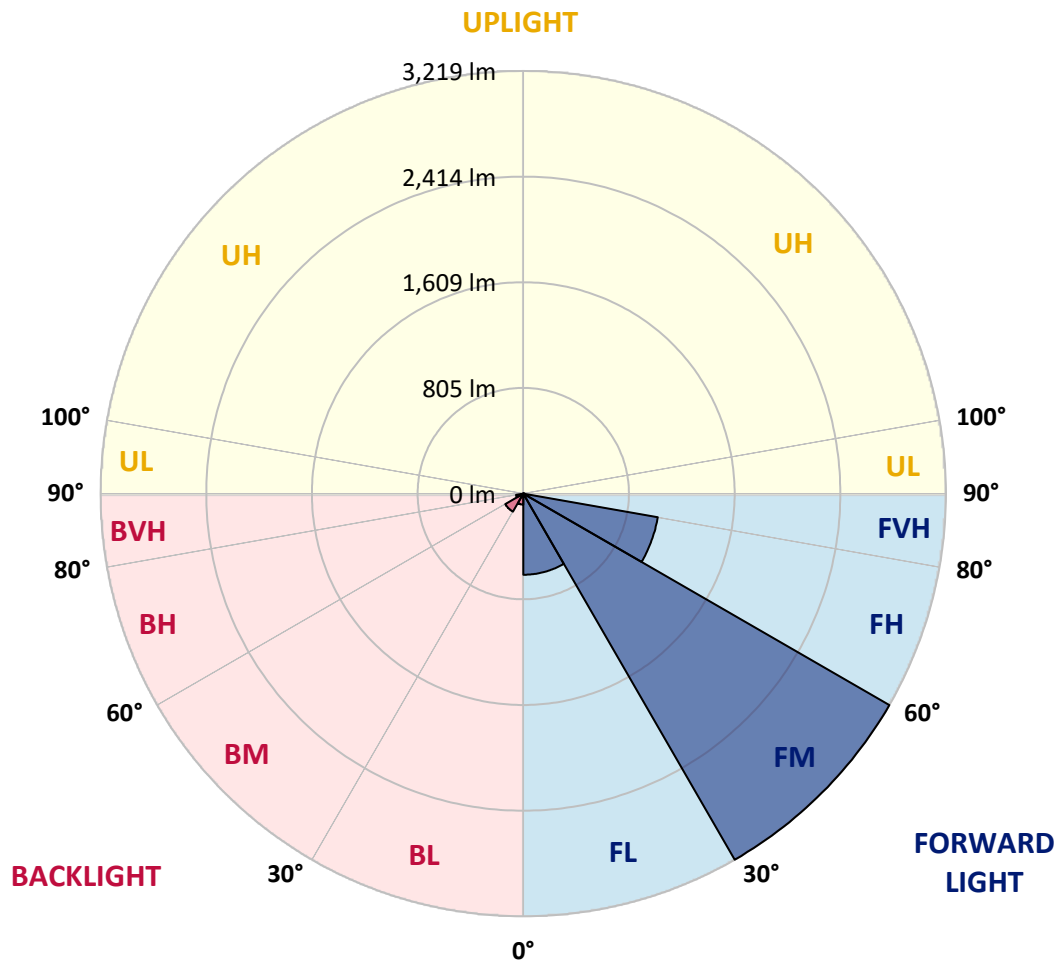
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	617.8	11.9			
FM (30°-60°)	3218.6	62.1			
FH (60°-80°)	1039.8	20.0			G1/1800
FVH (80°-90°)	11.6	0.2			G1/100
BL (0°-30°)	83.6	1.6	B0/110		
BM (30°-60°)	158.4	3.1	B0/220		
BH (60°-80°)	56.2	1.1	B0/110		G0/110
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: B0-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	434.4	434.4	434.4	434.4	434.4	434.4	434.4	434.4	434.4	434.4	434.4
2.5°	635.7	629.9	618.5	614.5	597.7	571.6	548.6	517.8	493.5	491.0	461.6
5°	851.3	838.4	833.0	807.2	766.7	728.8	663.6	614.2	557.2	552.9	493.9
7.5°	1059.0	1041.1	1035.7	1011.3	964.1	904.3	819.7	729.9	639.6	631.4	537.2
10°	1209.4	1211.9	1202.2	1186.1	1147.8	1086.9	982.7	859.9	731.3	720.9	585.9
12.5°	1317.2	1316.8	1318.6	1318.3	1297.8	1251.6	1142.1	1000.6	832.3	811.9	641.8
15°	1387.4	1388.4	1393.8	1412.4	1414.6	1385.9	1294.6	1135.3	949.4	924.0	702.3
17.5°	1458.3	1465.8	1474.4	1491.9	1507.7	1496.2	1431.8	1275.6	1055.4	1036.4	767.1
20°	1575.4	1585.8	1580.8	1591.5	1599.7	1600.8	1551.0	1405.3	1184.0	1152.1	841.2
22.5°	1762.7	1762.3	1749.4	1730.1	1714.0	1713.3	1668.1	1538.5	1300.7	1269.9	915.7
25°	1999.4	2000.5	1975.4	1920.3	1880.2	1831.1	1779.2	1655.2	1425.7	1387.7	994.2
27.5°	2270.9	2264.1	2226.1	2150.2	2070.7	1986.9	1912.0	1791.0	1558.2	1526.7	1084.0
30°	2514.7	2512.2	2467.8	2375.1	2270.5	2186.3	2077.8	1961.1	1729.7	1691.1	1184.7
32.5°	2741.8	2745.4	2683.8	2587.8	2486.8	2389.8	2275.2	2123.7	1898.1	1843.3	1294.3
35°	2919.1	2922.7	2858.9	2779.0	2675.2	2594.6	2485.4	2297.0	2064.2	2018.0	1420.3
37.5°	3013.6	3018.3	2981.4	2921.2	2856.4	2815.9	2714.2	2520.1	2266.2	2238.3	1569.3
40°	3031.5	3036.9	3020.8	3004.7	3001.1	3030.1	3000.4	2783.0	2546.3	2502.6	1791.3
42.5°	2977.8	2985.0	2992.1	3027.9	3101.0	3207.4	3310.9	3139.7	2906.9	2848.2	2062.8
45°	2836.7	2836.0	2864.3	2957.0	3120.7	3347.7	3635.3	3586.3	3398.2	3328.4	2446.3
47.5°	2595.3	2591.7	2653.0	2785.1	3040.1	3373.5	3900.0	4128.5	4025.3	3960.9	2858.5
50°	2227.5	2245.1	2341.4	2525.8	2839.9	3295.5	3981.6	4484.1	4539.9	4471.5	3191.6
52.5°	1796.7	1796.0	1947.1	2197.4	2543.4	3123.6	3924.7	4548.5	4707.2	4654.9	3355.6
55°	1329.7	1339.0	1496.2	1748.7	2158.4	2809.8	3738.8	4482.3	4770.9	4734.0	3463.8
57°	989.1	1005.6	1131.7	1398.8	1823.2	2499.3	3491.4	4363.7	4796.0	4775.9	3553.7
57.5°	923.2	924.0	1046.8	1289.6	1725.1	2380.1	3420.4	4314.3	4795.3	4784.2	3568.3
60°	568.3	586.2	671.1	871.7	1262.7	1857.6	2945.2	4030.3	4758.0	4774.2	3631.0
62.5°	340.2	347.7	402.9	525.4	814.0	1355.9	2410.2	3666.8	4661.0	4710.0	3626.7
65°	218.8	220.6	245.7	318.0	508.9	916.4	1857.2	3186.6	4409.9	4500.2	3484.9
67.5°	169.0	171.9	181.9	208.8	295.1	570.8	1313.6	2674.1	4003.8	4120.2	3141.1
70°	150.1	151.5	155.1	163.7	195.2	322.3	817.2	2088.9	3320.2	3353.1	2458.2
72.5°	122.5	126.4	137.5	140.4	154.7	201.3	454.8	1402.1	2230.8	2239.0	1375.2
75°	94.9	95.6	112.1	120.3	130.4	138.6	203.1	706.9	1071.5	1014.2	530.0
77.5°	70.9	74.1	81.7	92.0	106.4	99.2	91.0	266.4	332.7	326.6	154.0
80°	45.5	47.3	56.9	69.1	82.7	64.8	51.2	78.1	73.1	75.2	36.9
82.5°	22.9	23.3	36.5	56.2	52.6	32.6	32.2	31.9	27.2	26.9	17.2
85°	2.5	5.4	23.6	32.2	23.6	10.7	15.0	14.7	14.3	14.7	10.0
87.5°	0.4	0.4	3.9	4.7	3.2	3.6	4.3	4.7	5.7	5.4	4.3
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°	434.4	434.4	434.4	434.4	434.4	434.4	434.4	434.4	434.4	434.4	434.4
2.5°	447.3	433.0	406.5	381.0	362.1	349.9	334.1	328.4	320.2	319.1	315.1
5°	466.6	439.4	393.2	356.7	327.3	305.1	285.8	269.7	256.8	253.9	255.3
7.5°	494.2	453.7	389.3	339.5	298.7	260.7	229.9	210.9	197.3	192.3	193.0
10°	525.4	472.7	388.6	321.2	258.9	212.4	178.7	161.9	154.0	151.1	147.9
12.5°	562.3	494.6	386.8	292.9	215.2	169.4	145.4	135.4	127.9	125.7	125.7
15°	603.8	517.8	378.2	257.8	174.8	140.0	123.9	116.0	113.5	111.4	111.4
17.5°	647.1	540.8	360.3	214.5	145.0	120.0	109.9	105.3	101.7	99.2	99.2
20°	696.6	563.3	331.6	176.2	122.5	107.1	99.2	93.8	91.0	88.8	88.1
22.5°	743.5	581.6	295.1	144.7	106.7	96.3	89.2	83.4	80.6	79.5	79.5
25°	792.2	592.7	251.0	119.6	97.4	87.4	79.5	74.8	72.3	71.6	71.3
27.5°	839.4	599.1	212.4	104.6	88.8	79.1	71.6	68.0	65.5	64.8	65.2
30°	896.7	600.2	174.8	93.8	81.3	71.3	64.5	61.2	59.8	59.1	58.7
32.5°	954.8	598.8	146.8	87.4	74.1	64.5	58.7	56.2	55.2	54.1	54.1
35°	1019.9	591.3	125.0	80.9	67.3	58.7	53.7	51.6	50.1	49.1	48.7
37.5°	1100.9	587.3	112.5	73.8	61.2	53.4	48.7	46.6	45.5	44.0	43.7
40°	1228.4	604.9	108.5	67.3	55.2	48.3	44.0	41.5	40.1	38.7	38.3
42.5°	1387.4	635.7	102.1	60.9	49.8	43.7	39.4	36.5	34.0	32.2	31.5
45°	1593.3	676.1	92.0	54.1	45.1	38.7	34.7	31.2	27.9	26.5	26.1
47.5°	1809.2	715.2	83.1	48.7	40.1	34.4	30.1	26.1	23.3	22.2	21.8
50°	1941.7	723.1	77.4	42.6	35.1	29.7	25.4	21.8	20.1	19.0	19.0
52.5°	2002.3	710.5	69.5	37.2	30.4	26.1	21.8	19.0	17.9	17.2	16.8
55°	2044.5	691.2	59.1	32.2	26.1	22.2	19.3	17.2	15.8	15.0	14.7
57°	2069.2	665.0	51.2	28.3	22.6	19.3	17.2	15.4	14.0	12.5	12.5
57.5°	2070.3	655.0	49.1	27.9	21.5	18.6	16.8	15.0	13.3	11.8	11.5
60°	2038.4	586.2	39.4	23.6	17.2	15.8	14.0	11.8	9.3	7.9	7.5
62.5°	1936.0	498.9	32.6	20.1	14.0	12.2	10.0	9.0	6.4	4.7	4.7
65°	1781.0	404.7	27.9	16.1	11.5	9.0	6.8	6.4	3.9	2.1	1.8
67.5°	1556.8	315.1	23.6	13.3	9.7	6.4	4.7	4.3	2.1	0.7	0.0
70°	1186.1	214.9	19.7	10.7	7.2	4.7	3.2	2.5	1.4	0.4	0.0
72.5°	683.7	118.2	16.5	8.2	5.4	3.6	2.5	1.4	1.4	0.0	0.0
75°	244.2	50.9	12.5	6.1	4.3	2.9	1.8	0.7	1.1	0.4	0.0
77.5°	77.7	27.2	8.2	4.7	3.6	2.1	1.4	0.7	0.7	0.4	0.0
80°	22.9	14.3	5.0	3.9	2.5	1.8	1.1	0.4	0.7	0.4	0.0
82.5°	12.5	7.2	3.9	2.9	2.5	1.4	1.1	0.4	0.4	0.4	0.0
85°	6.4	4.3	3.2	2.9	2.5	1.4	1.1	0.4	0.0	0.4	0.4
87.5°	3.6	3.2	3.2	2.9	2.5	1.8	1.1	0.4	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)