

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: P450704

Luminaire Tested: **GALN-SA1C-730-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450704
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-SA1C-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4757 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

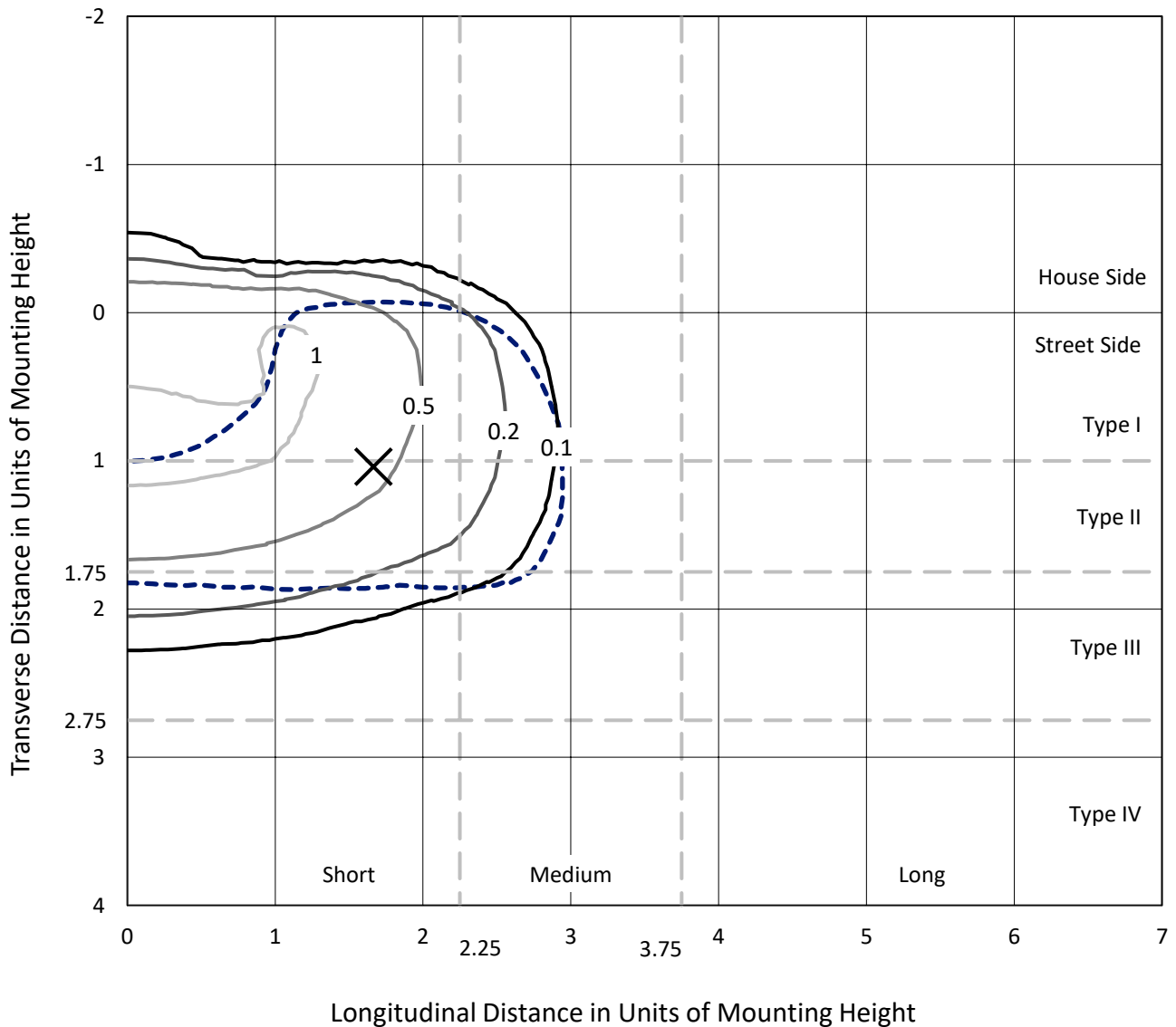
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

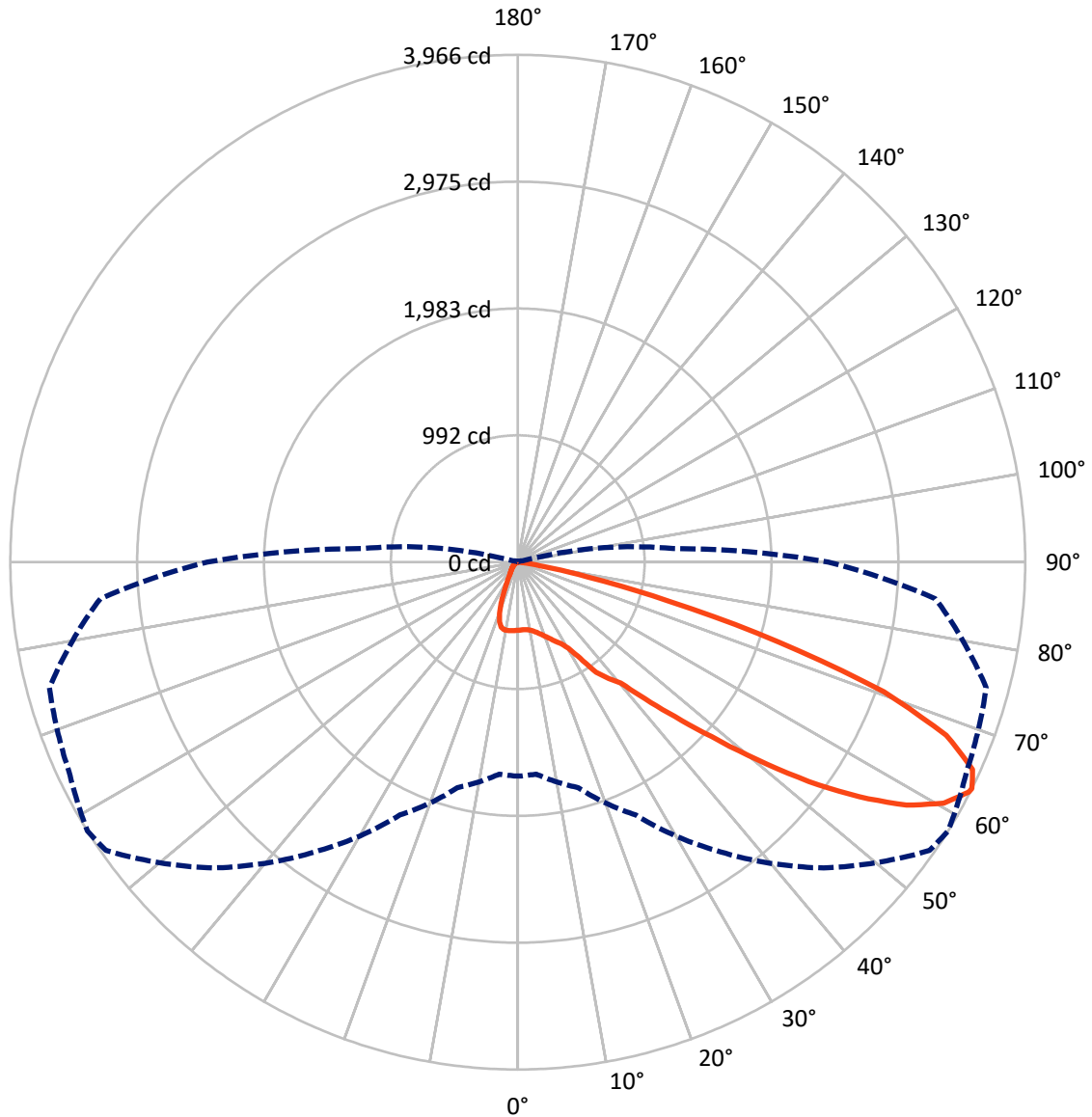
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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	492.6	0.0	492.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	4264.4	0.0	4264.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	4757.0	0.0	4757.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.9	1.0
10°-20°	135.8	2.9
20°-30°	235.7	5.0
30°-40°	433.1	9.1
40°-50°	815.2	17.1
50°-60°	1394.4	29.3
60°-70°	1335.1	28.1
70°-80°	340.5	7.2
80°-90°	17.4	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°	4757.0	100.0
0°-180°	4757.0	100.0

Coefficient of Utilization



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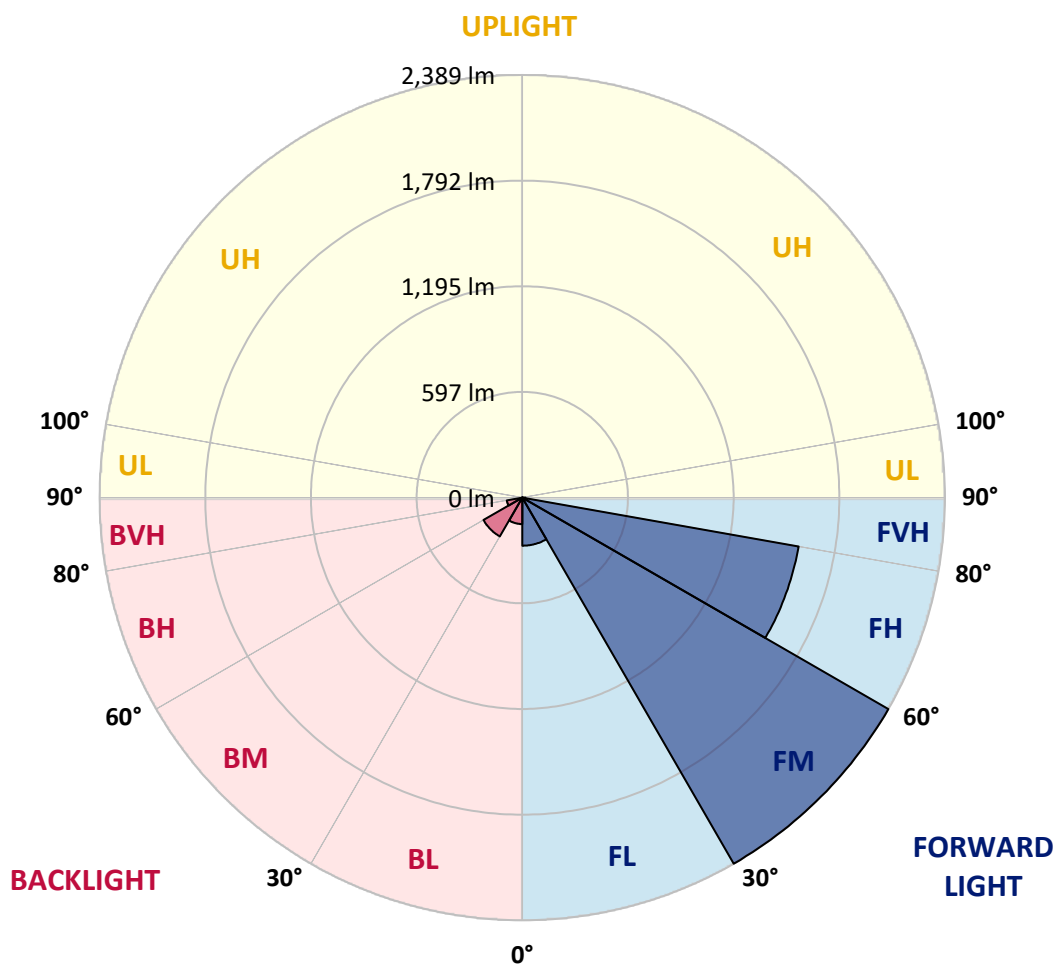
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	271.9	5.7			
FM	(30°-60°)	2389.3	50.2			
FH	(60°-80°)	1586.4	33.3			G1/1800
FVH	(80°-90°)	16.7	0.4			G1/100
BL	(0°-30°)	149.4	3.1	B1/500		
BM	(30°-60°)	253.3	5.3	B1/1000		
BH	(60°-80°)	89.2	1.9	B0/110		G0/110
BVH	(80°-90°)	0.7	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	532.6	532.6	532.6	532.6	532.6	532.6	532.6	532.6	532.6	532.6	532.6
2.5°	519.3	521.1	522.9	523.6	526.1	528.6	530.4	530.1	532.9	534.4	534.4
5°	498.5	498.5	503.2	507.5	514.7	521.8	528.6	530.1	535.4	540.4	542.2
7.5°	481.0	482.1	485.6	493.5	503.2	515.7	529.3	532.6	541.9	553.0	557.6
10°	472.8	473.5	478.1	486.4	498.5	515.7	534.7	540.8	555.1	572.7	579.1
12.5°	471.0	472.0	476.7	486.0	500.0	520.7	546.5	553.0	573.8	596.3	606.0
15°	474.2	474.9	479.6	489.6	505.0	529.7	562.3	571.2	596.0	622.1	634.6
17.5°	485.6	484.9	488.2	496.4	513.6	540.8	581.3	592.0	621.0	656.8	665.1
20°	534.4	529.7	526.8	519.7	526.5	556.6	604.2	620.0	655.8	692.3	698.0
22.5°	639.3	628.9	608.5	580.6	559.1	578.0	631.8	650.0	696.2	732.1	732.1
25°	772.9	759.6	739.2	678.3	625.7	613.5	662.9	685.9	740.3	776.5	764.6
27.5°	940.1	929.7	890.0	819.1	738.5	675.5	699.1	720.2	779.3	823.0	798.3
30°	1076.2	1071.2	1038.6	975.2	886.4	794.4	766.4	780.4	831.3	881.8	856.3
32.5°	1191.2	1191.2	1157.9	1098.8	1015.7	934.0	880.7	890.7	939.4	997.8	950.5
35°	1317.6	1313.3	1286.5	1230.2	1137.1	1065.1	1043.3	1056.9	1100.9	1144.3	1027.9
37.5°	1450.5	1449.1	1421.1	1366.7	1290.8	1200.2	1148.9	1152.5	1175.1	1201.6	1118.5
40°	1594.8	1597.0	1560.4	1526.8	1455.2	1362.4	1264.3	1241.7	1262.8	1337.7	1285.7
42.5°	1765.3	1760.3	1744.5	1698.7	1641.0	1585.5	1467.7	1459.4	1478.1	1558.3	1502.1
45°	1963.4	1970.5	1943.3	1917.9	1879.2	1833.0	1734.5	1720.2	1740.6	1865.2	1785.4
47.5°	2161.8	2155.0	2172.5	2167.9	2188.6	2154.3	2067.2	2037.9	2086.9	2205.1	2087.6
50°	2312.9	2320.4	2357.0	2410.3	2499.5	2518.8	2435.4	2425.4	2447.2	2523.1	2358.0
52.5°	2411.0	2436.1	2493.4	2630.6	2791.4	2916.4	2853.0	2847.6	2838.7	2859.1	2616.6
55°	2475.2	2500.6	2575.4	2777.4	3054.3	3257.3	3260.6	3237.6	3178.6	3163.9	2858.4
57.5°	2435.8	2440.8	2547.5	2817.5	3200.0	3500.5	3605.8	3582.9	3473.7	3418.2	3071.8
60°	2189.4	2199.7	2348.4	2665.7	3136.7	3580.0	3834.7	3824.3	3704.7	3642.0	3238.0
62.5°	1752.8	1782.9	1935.8	2289.6	2841.9	3446.1	3927.4	3956.8	3863.7	3777.4	3290.3
63°	1672.5	1662.9	1824.4	2180.0	2763.8	3379.8	3928.9	3966.1	3870.9	3790.3	3276.0
65°	1238.1	1267.1	1372.1	1719.1	2300.0	3071.5	3840.4	3906.3	3844.3	3733.3	3117.3
67.5°	695.2	693.7	809.8	1124.9	1609.9	2409.3	3472.6	3611.9	3599.0	3350.1	2584.0
70°	340.2	345.6	393.2	583.1	933.7	1662.2	2885.6	3036.0	3040.7	2631.3	1786.8
72.5°	154.0	156.5	190.5	284.0	479.9	885.0	1988.4	2132.0	2105.5	1676.8	986.7
75°	81.3	86.7	104.9	142.9	231.4	365.0	1081.6	1220.6	1165.1	766.1	363.2
77.5°	60.2	62.0	71.3	91.0	123.9	142.2	466.7	555.1	520.0	277.2	120.3
80°	44.1	45.5	53.0	64.5	78.1	72.3	175.9	201.6	180.9	94.2	36.9
82.5°	26.9	27.2	38.7	48.0	49.1	40.5	58.0	62.3	65.2	53.0	20.1
85°	9.7	12.2	26.1	34.7	29.0	20.4	24.4	26.9	29.4	33.7	11.8
87.5°	1.1	1.4	12.5	16.8	8.2	7.5	9.0	10.0	10.7	12.5	5.7
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°	532.6	532.6	532.6	532.6	532.6	532.6	532.6	532.6	532.6	532.6	532.6
2.5°	535.8	537.2	536.1	534.4	534.0	532.9	530.8	530.8	530.8	531.5	530.8
5°	543.7	544.7	542.2	538.7	534.7	529.7	524.3	521.1	520.7	520.0	518.2
7.5°	558.7	560.1	554.4	545.8	535.1	522.9	511.4	500.7	495.7	491.7	491.7
10°	580.6	582.0	570.5	555.1	533.6	508.9	481.7	457.0	437.7	428.7	426.6
12.5°	606.7	607.4	588.4	561.6	526.1	478.5	420.5	366.4	328.8	311.6	309.8
15°	635.4	630.3	605.3	564.1	504.6	415.8	315.5	249.3	210.2	198.8	203.1
17.5°	664.4	655.1	618.2	560.1	456.3	315.5	212.0	170.1	157.9	154.7	154.7
20°	691.6	678.7	627.5	543.0	372.5	217.4	157.2	147.2	145.0	142.9	143.3
22.5°	718.8	699.1	635.7	504.6	277.6	155.4	140.8	137.5	134.7	131.8	131.4
25°	745.3	718.1	638.9	433.7	189.1	133.6	128.6	124.3	118.5	115.3	114.6
27.5°	772.9	741.0	636.8	344.2	137.9	119.6	114.6	108.5	101.7	96.0	96.0
30°	825.9	784.7	629.3	247.5	116.0	105.3	98.8	89.2	81.7	75.9	75.6
32.5°	898.2	841.6	603.5	174.1	103.1	92.8	83.1	72.3	64.5	60.2	60.2
35°	962.7	898.9	555.1	128.2	92.8	80.6	68.8	58.4	52.3	49.4	48.3
37.5°	1060.8	982.8	488.5	104.2	82.7	69.8	57.7	48.0	43.0	40.8	40.8
40°	1208.0	1085.2	406.9	91.3	73.1	59.5	48.0	40.5	36.5	34.0	34.0
42.5°	1390.7	1210.5	324.1	82.0	64.1	51.2	40.1	34.4	30.8	29.0	28.7
45°	1620.6	1342.7	249.6	73.4	56.9	43.7	34.0	29.0	25.4	24.4	24.7
47.5°	1860.6	1459.1	193.4	65.9	49.4	36.9	29.0	25.1	22.6	21.1	21.1
50°	2065.4	1539.3	146.8	57.3	43.7	31.2	25.4	22.6	20.4	19.7	19.3
52.5°	2236.6	1562.6	112.5	49.8	38.3	26.9	22.6	20.4	18.6	17.5	17.5
55°	2382.4	1542.2	88.1	41.9	32.2	23.3	20.1	18.3	16.1	15.0	14.7
57.5°	2467.6	1476.6	67.3	34.7	26.1	19.3	17.5	15.4	12.9	11.1	11.1
60°	2510.6	1381.4	51.6	28.7	20.1	15.4	14.3	11.5	9.0	7.5	7.2
62.5°	2459.0	1254.9	39.0	22.6	15.0	11.5	9.7	8.2	5.7	4.3	4.3
63°	2427.2	1218.4	37.6	21.5	14.0	10.7	9.0	7.5	5.0	3.9	3.6
65°	2212.6	1059.0	30.8	17.2	11.1	7.5	6.1	5.4	3.6	1.8	1.4
67.5°	1757.1	810.1	24.4	12.9	7.9	5.4	3.6	3.2	1.1	0.0	0.0
70°	1188.0	523.3	19.0	9.3	5.4	3.2	1.8	1.4	0.4	0.0	0.0
72.5°	619.6	268.3	14.7	6.8	3.2	2.1	1.1	0.4	0.0	0.0	0.0
75°	219.2	91.3	10.7	4.3	2.1	1.1	0.4	0.0	0.0	0.0	0.0
77.5°	66.3	34.0	6.8	3.2	1.4	0.7	0.0	0.0	0.0	0.0	0.0
80°	23.3	12.5	3.9	2.1	1.1	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	11.5	6.1	2.5	1.8	1.1	0.4	0.0	0.0	0.0	0.0	0.0
85°	6.4	3.9	2.1	1.8	1.1	0.7	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	2.9	2.1	1.8	1.4	0.7	0.4	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)