

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: P528707

Luminaire Tested: **GALN-SA3D-740-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-740-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13623 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

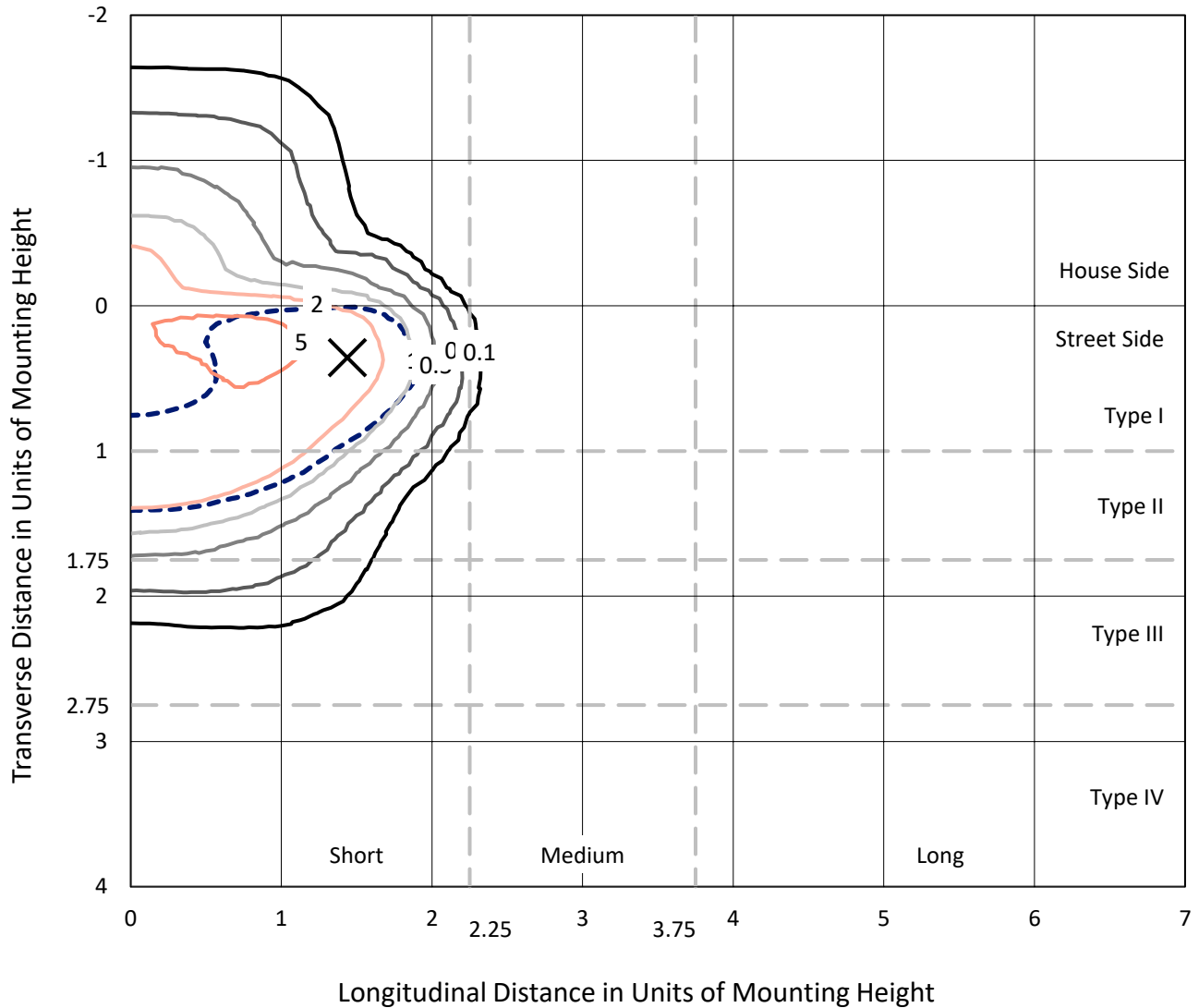
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

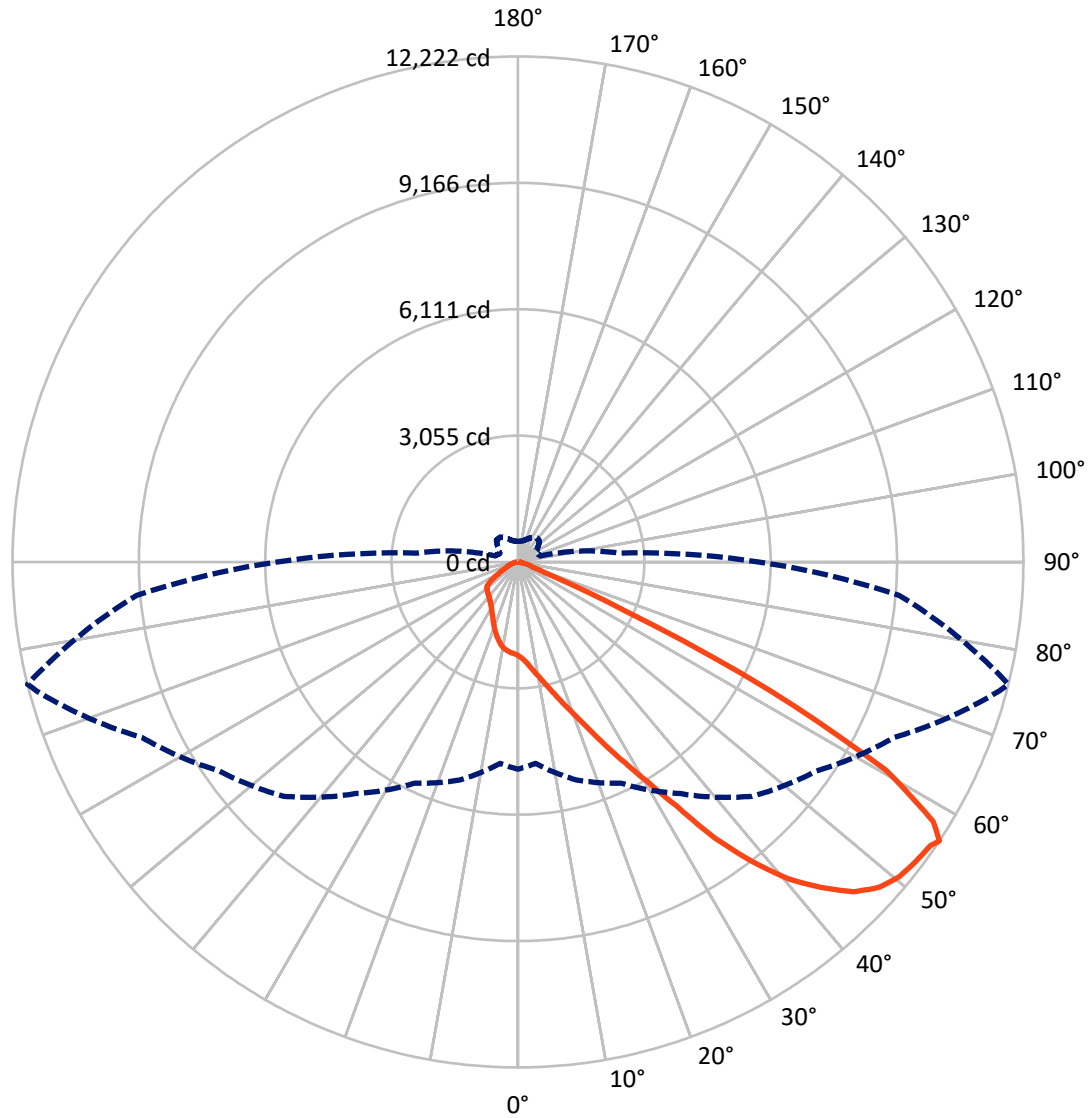
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2140.1	0.0	2140.1
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	11482.9	0.0	11482.9
	% Fixture	84.3	0.0	84.3
Total	Lumens	13623.0	0.0	13623.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.4	1.7
10°-20°	733.8	5.4
20°-30°	1330.7	9.8
30°-40°	2294.8	16.8
40°-50°	3728.0	27.4
50°-60°	3929.4	28.8
60°-70°	1200.6	8.8
70°-80°	153.9	1.1
80°-90°	23.4	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°	13623.0	100.0
0°-180°	13623.0	100.0

Coefficient of Utilization

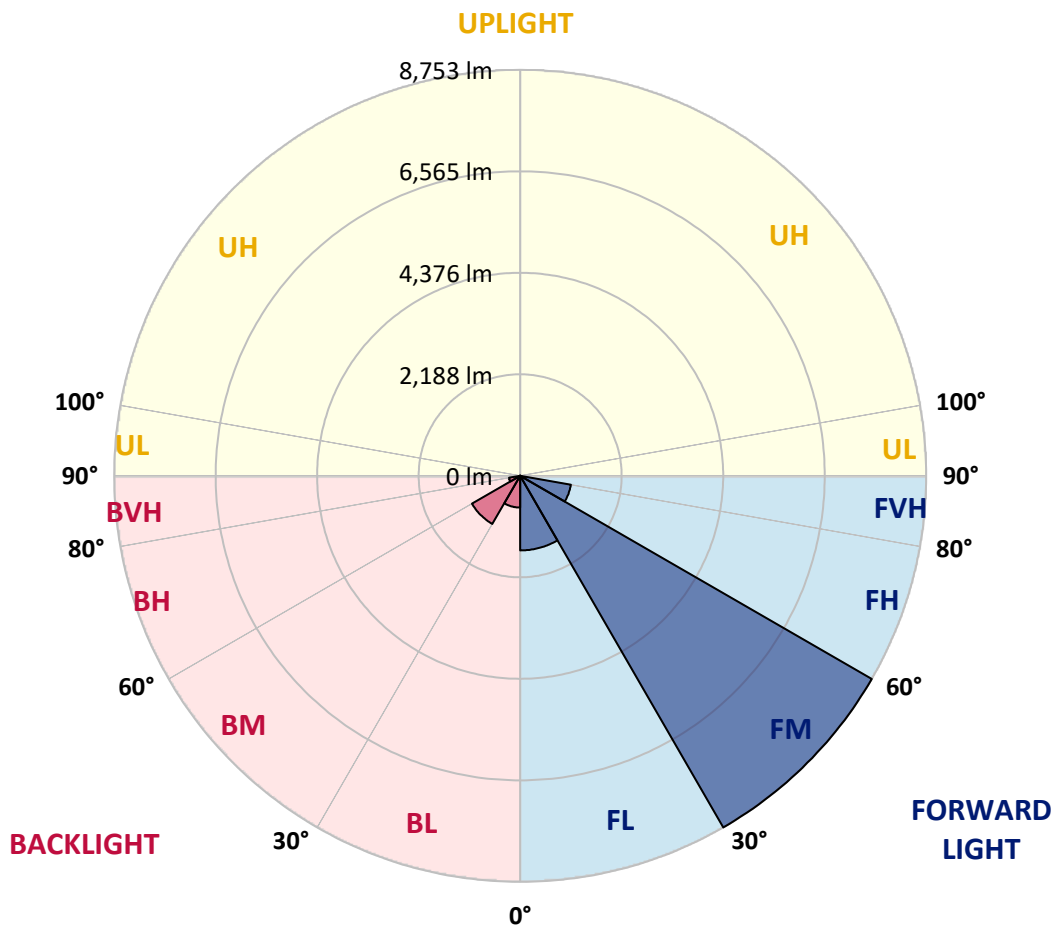


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1608.3	11.8			
FM (30°-60°)	8752.8	64.2			
FH (60°-80°)	1110.4	8.2			G1/1800
FVH (80°-90°)	11.5	0.1			G1/100
BL (0°-30°)	684.6	5.0	B2/1000		
BM (30°-60°)	1199.4	8.8	B2/2500		
BH (60°-80°)	244.2	1.8	B1/500		G1/500
BVH (80°-90°)	11.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6
2.5°	2611.6	2551.3	2553.8	2548.8	2541.3	2513.7	2430.8	2418.2	2363.0	2347.9	2297.7
5°	2925.5	2872.8	2902.9	2857.7	2815.0	2789.9	2654.3	2591.5	2503.6	2471.0	2400.7
7.5°	3121.4	3096.2	3086.2	3088.7	3048.5	2985.8	2925.5	2787.4	2669.4	2644.2	2496.1
10°	3216.8	3201.7	3216.8	3209.3	3226.8	3234.4	3128.9	3046.0	2872.8	2830.1	2599.0
12.5°	3239.4	3269.5	3282.1	3314.7	3357.4	3430.2	3422.7	3309.7	3078.7	3051.0	2757.2
15°	3294.6	3319.7	3307.2	3359.9	3440.3	3563.3	3628.6	3611.0	3362.4	3312.2	2940.6
17.5°	3344.9	3299.7	3342.3	3447.8	3528.2	3716.5	3874.7	3947.5	3671.3	3613.5	3108.8
20°	3412.7	3400.1	3392.6	3445.3	3588.4	3839.5	4153.4	4286.5	4017.8	3957.6	3349.9
22.5°	3618.6	3621.1	3616.1	3538.2	3641.2	3924.9	4397.0	4726.0	4432.2	4382.0	3623.6
25°	3889.8	3857.1	3832.0	3769.2	3756.7	4002.8	4643.1	5263.4	4929.4	4894.2	3919.9
27.5°	4176.0	4176.0	4100.7	4043.0	3962.6	4196.1	4869.1	5785.7	5529.6	5481.8	4178.6
30°	4487.4	4505.0	4495.0	4371.9	4321.7	4407.1	5100.1	6453.7	6217.6	6157.3	4605.4
32.5°	4947.0	4909.3	4952.0	4849.0	4700.9	4776.2	5464.3	7051.3	7111.6	7026.2	5165.4
35°	5554.7	5532.1	5504.4	5336.2	5160.4	5220.7	5979.0	7787.1	8234.1	8191.4	5730.4
37.5°	6099.6	6087.0	6064.4	5948.9	5745.5	5818.3	6564.1	8553.0	9328.9	9188.3	6529.0
40°	6672.1	6739.9	6667.1	6564.1	6378.3	6539.0	7252.2	9007.5	10250.5	10079.8	7139.2
42.5°	7448.1	7395.3	7428.0	7239.6	7139.2	7315.0	7942.8	9462.0	10966.2	10762.8	7787.1
45°	8274.2	8276.8	8188.9	8128.6	7867.4	8058.3	8367.2	9713.1	11536.2	11378.0	8276.8
47.5°	8804.1	8801.6	8897.0	8992.4	8723.7	8535.4	8655.9	9951.7	11830.0	11757.2	8455.0
50°	8721.2	8746.3	8869.4	9226.0	9366.6	9113.0	8927.1	9881.4	11963.1	11955.6	8608.2
52.5°	7586.2	7669.1	7875.0	8389.8	9097.9	9411.8	9210.9	10012.0	12028.4	12041.0	8836.7
55°	5775.6	5820.8	6212.6	6837.9	7621.3	8696.1	9097.9	10114.9	12078.6	12101.2	9113.0
56°	5009.7	4889.2	5454.2	5898.7	6835.4	8010.6	8811.6	10034.6	12048.5	12221.8	9251.1
57.5°	3781.8	3701.4	4158.5	4713.4	5614.9	6855.4	7922.7	9655.4	11845.1	11842.6	9052.7
60°	2300.2	2219.9	2571.4	2897.9	3402.6	4221.2	5353.8	7689.1	10014.5	10225.4	7330.0
62.5°	1368.6	1418.8	1765.3	1963.7	2126.9	2212.3	2769.8	4570.3	6682.2	6832.8	4547.7
65°	911.5	929.1	1190.3	1516.7	1589.6	1265.6	1127.5	1850.7	2897.9	2805.0	1875.8
67.5°	562.5	602.7	798.5	1140.1	1263.1	924.1	534.9	690.6	798.5	798.5	542.4
70°	341.5	361.6	532.4	775.9	866.3	595.1	389.2	389.2	384.2	376.7	323.9
72.5°	163.2	175.8	271.2	399.3	406.8	313.9	301.3	329.0	321.4	318.9	268.7
75°	70.3	75.3	95.4	125.6	143.1	133.1	183.3	236.0	243.6	236.0	193.4
77.5°	22.6	25.1	35.2	45.2	47.7	57.8	77.8	97.9	113.0	105.5	95.4
80°	2.5	5.0	10.0	22.6	35.2	45.2	57.8	65.3	72.8	72.8	67.8
82.5°	2.5	2.5	10.0	20.1	32.6	42.7	55.2	62.8	72.8	75.3	70.3
85°	0.0	2.5	7.5	17.6	27.6	27.6	25.1	25.1	17.6	17.6	17.6
87.5°	0.0	0.0	2.5	2.5	2.5	5.0	5.0	5.0	5.0	5.0	5.0
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°	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6
2.5°	2287.7	2282.6	2214.8	2172.1	2149.5	2104.3	2076.7	2056.6	2041.6	2024.0	2026.5
5°	2317.8	2300.2	2187.2	2109.4	2016.5	1966.2	1923.5	1888.4	1865.8	1860.8	1850.7
7.5°	2403.2	2310.3	2139.5	1998.9	1880.9	1830.6	1793.0	1770.4	1780.4	1757.8	1775.4
10°	2468.5	2330.3	2081.7	1878.3	1760.3	1722.6	1702.6	1720.1	1745.2	1735.2	1722.6
12.5°	2548.8	2350.4	1988.8	1762.8	1652.3	1624.7	1659.9	1692.5	1742.7	1762.8	1737.7
15°	2639.2	2373.0	1870.8	1629.7	1559.4	1582.0	1642.3	1700.0	1750.3	1775.4	1790.5
17.5°	2749.7	2365.5	1755.3	1524.3	1471.5	1536.8	1609.6	1662.4	1737.7	1775.4	1765.3
20°	2852.7	2340.4	1627.2	1418.8	1421.3	1481.6	1541.8	1627.2	1667.4	1717.6	1700.0
22.5°	2950.6	2295.2	1494.1	1346.0	1346.0	1438.9	1469.0	1524.3	1559.4	1584.5	1582.0
25°	3088.7	2209.8	1383.6	1275.7	1305.8	1366.1	1391.2	1408.8	1393.7	1413.8	1416.3
27.5°	3186.6	2121.9	1293.2	1212.9	1268.1	1313.3	1305.8	1295.8	1260.6	1233.0	1250.6
30°	3292.1	2019.0	1215.4	1170.2	1200.3	1240.5	1210.4	1180.2	1125.0	1079.8	1082.3
32.5°	3442.8	1971.3	1147.6	1120.0	1160.2	1165.2	1132.5	1087.3	1032.1	989.4	986.9
35°	3724.0	1941.1	1089.8	1087.3	1094.9	1097.4	1064.7	1009.5	986.9	951.7	964.3
37.5°	4005.3	1926.1	1049.7	1039.6	1037.1	1039.6	1001.9	949.2	991.9	989.4	994.4
40°	4364.4	1993.9	991.9	979.3	981.9	981.9	934.1	919.1	994.4	1001.9	1004.5
42.5°	4728.5	2079.2	954.2	914.1	924.1	924.1	899.0	881.4	934.1	883.9	876.4
45°	5044.9	2204.8	914.1	848.8	873.9	886.4	878.9	848.8	816.1	730.7	730.7
47.5°	5147.9	2315.3	866.3	786.0	806.1	861.3	838.7	775.9	718.2	647.9	642.9
50°	5328.7	2435.8	828.7	713.2	755.9	823.7	801.1	738.3	673.0	622.8	625.3
52.5°	5514.5	2573.9	758.4	627.8	680.5	793.5	793.5	723.2	622.8	587.6	582.6
55°	5793.2	2568.9	632.8	514.8	607.7	748.3	760.9	647.9	557.5	529.9	529.9
56°	5833.4	2453.4	570.0	482.1	575.1	735.8	738.3	627.8	532.4	502.2	502.2
57.5°	5532.1	2214.8	499.7	442.0	534.9	713.2	715.7	610.2	512.3	469.6	464.6
60°	4256.4	1499.2	416.9	394.3	484.7	642.9	655.4	555.0	449.5	416.9	414.3
62.5°	2403.2	831.2	366.6	356.6	416.9	547.4	585.1	484.7	381.7	364.1	369.1
65°	1097.4	457.0	308.9	288.8	336.5	421.9	472.1	399.3	313.9	293.8	293.8
67.5°	401.8	311.4	263.7	228.5	236.0	273.7	306.4	258.6	208.4	178.3	185.8
70°	286.3	261.2	231.0	198.4	183.3	178.3	175.8	145.6	103.0	80.4	85.4
72.5°	231.0	216.0	193.4	168.2	143.1	120.5	103.0	75.3	47.7	32.6	30.1
75°	165.7	158.2	140.6	120.5	100.4	85.4	70.3	47.7	25.1	12.6	12.6
77.5°	85.4	85.4	82.9	75.3	62.8	50.2	40.2	27.6	15.1	5.0	5.0
80°	65.3	70.3	72.8	65.3	57.8	45.2	32.6	20.1	10.0	2.5	2.5
82.5°	62.8	72.8	77.8	67.8	57.8	42.7	32.6	20.1	10.0	2.5	2.5
85°	15.1	15.1	22.6	25.1	32.6	35.2	27.6	17.6	7.5	2.5	2.5
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	2.5	2.5	2.5	2.5	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)