

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: P452324

Luminaire Tested: **GALN-SA3B-730-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452324
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11565 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

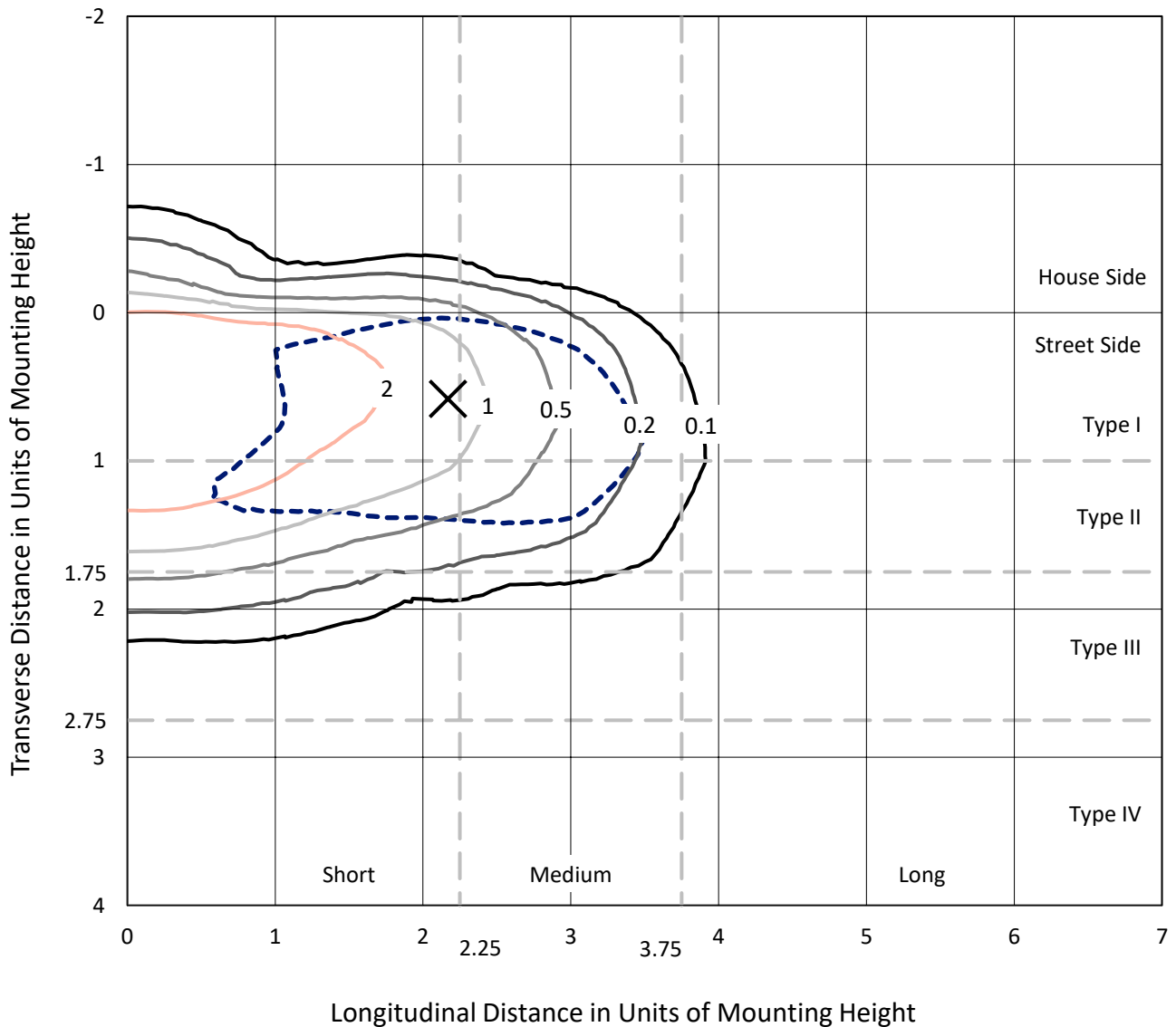
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

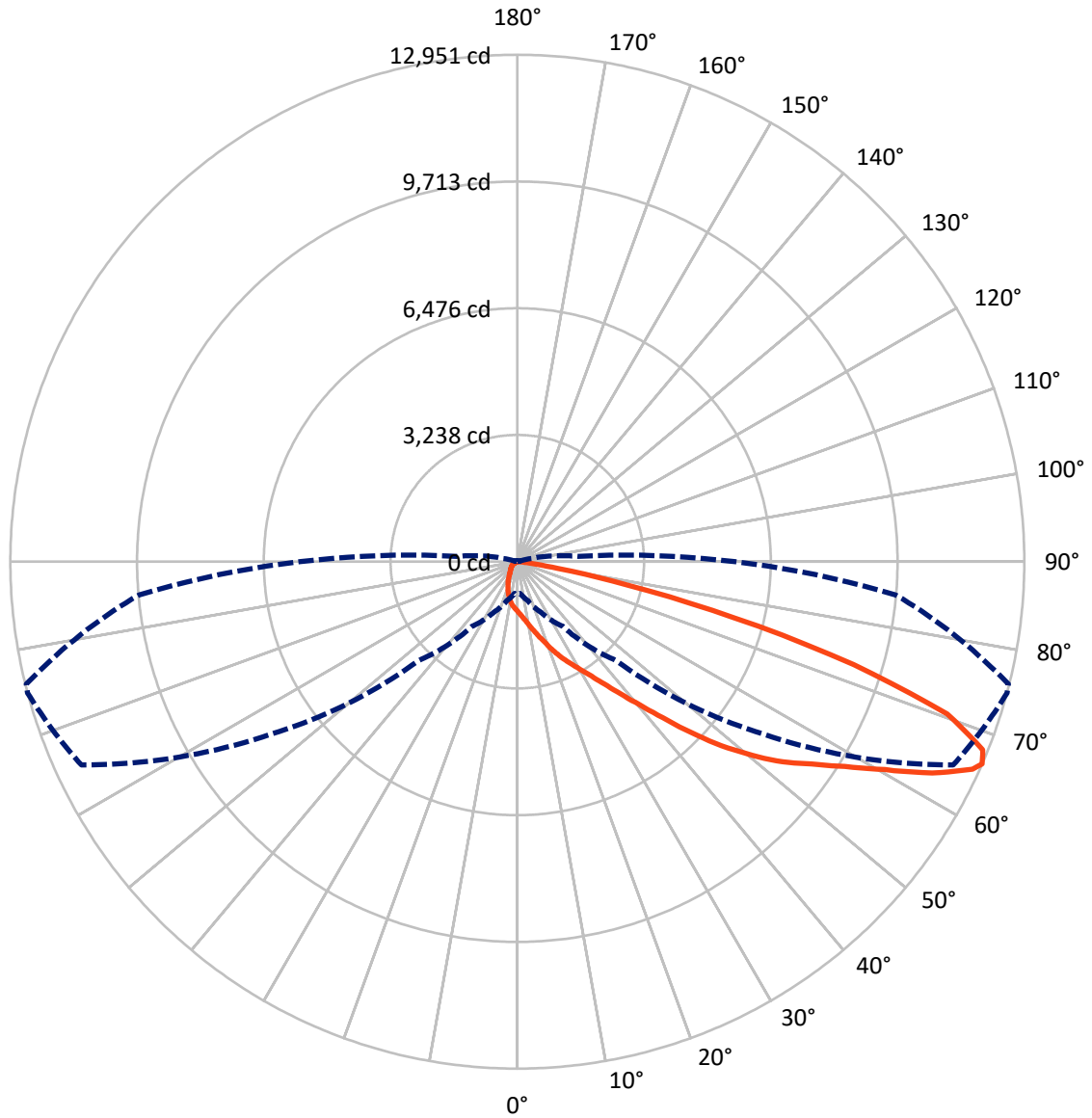
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	714.0	0.0	714.0
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	10851.0	0.0	10851.0
	% Fixture	93.8	0.0	93.8
Total	Lumens	11565.0	0.0	11565.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.0	1.1
10°-20°	359.0	3.1
20°-30°	619.9	5.4
30°-40°	1118.2	9.7
40°-50°	2020.1	17.5
50°-60°	3149.4	27.2
60°-70°	2991.8	25.9
70°-80°	1121.2	9.7
80°-90°	63.3	0.5
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°	11565.0	100.0
0°-180°	11565.0	100.0

Coefficient of Utilization



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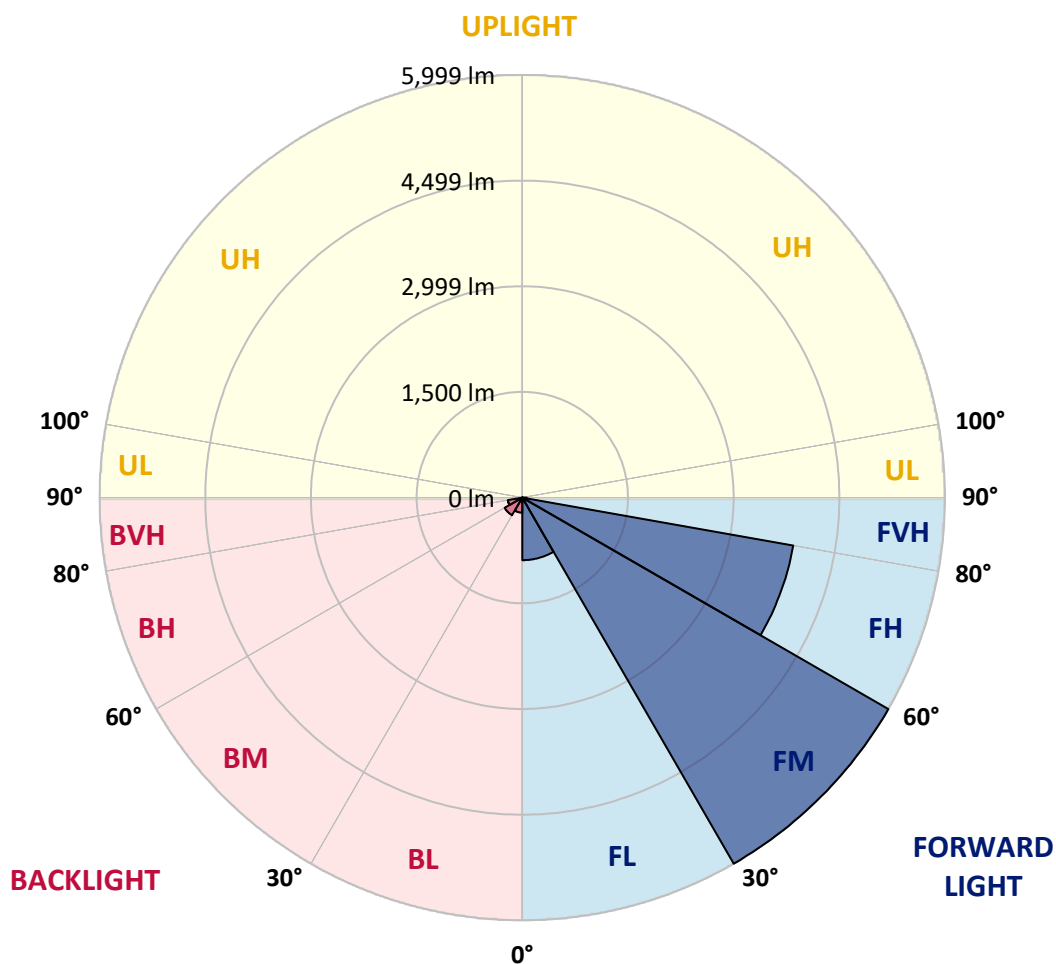
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	887.7	7.7			
FM (30°-60°)	5998.8	51.9			
FH (60°-80°)	3904.6	33.8			G2/5000
FVH (80°-90°)	60.0	0.5			G1/100
BL (0°-30°)	213.2	1.8	B1/500		
BM (30°-60°)	289.0	2.5	B1/1000		
BH (60°-80°)	208.5	1.8	B1/500		G1/500
BVH (80°-90°)	3.3	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7
2.5°	1511.0	1492.2	1498.2	1489.6	1470.0	1440.9	1415.3	1378.5	1341.7	1335.7	1294.7
5°	1710.3	1705.1	1698.3	1673.5	1659.8	1615.4	1562.3	1499.1	1422.9	1409.3	1334.9
7.5°	1846.2	1843.7	1847.1	1834.3	1822.3	1782.1	1725.7	1639.3	1521.3	1513.6	1389.6
10°	1890.7	1897.5	1910.4	1930.9	1949.7	1936.9	1894.1	1786.4	1648.7	1626.5	1452.0
12.5°	1865.1	1872.7	1903.5	1958.3	2019.0	2054.0	2036.9	1958.3	1783.8	1765.9	1522.1
15°	1799.2	1808.6	1852.2	1936.9	2045.5	2144.7	2187.4	2131.0	1941.2	1912.1	1606.8
17.5°	1701.7	1715.4	1777.8	1889.9	2038.6	2209.7	2330.2	2311.4	2108.8	2081.4	1699.2
20°	1628.2	1638.4	1691.5	1819.7	2009.6	2245.6	2466.2	2519.2	2315.7	2268.7	1807.8
22.5°	1676.9	1680.3	1698.3	1775.3	1957.4	2255.0	2585.9	2735.6	2535.5	2493.6	1920.6
25°	1915.5	1881.3	1863.3	1846.2	1946.3	2246.4	2694.5	2961.3	2754.4	2709.9	2032.7
27.5°	2291.8	2276.4	2185.7	2064.3	2041.2	2257.6	2766.4	3175.1	2960.5	2912.6	2142.1
30°	2701.4	2674.9	2619.3	2441.4	2262.7	2336.2	2818.5	3382.9	3204.2	3140.9	2242.2
32.5°	3077.6	3094.7	3011.8	2828.8	2621.8	2503.8	2886.1	3609.5	3483.8	3405.2	2358.5
35°	3516.3	3550.5	3423.1	3247.8	3005.8	2806.6	3017.8	3865.2	3838.7	3739.5	2538.0
37.5°	3961.8	3982.4	3904.6	3658.3	3440.2	3191.4	3265.8	4180.8	4275.7	4191.0	2752.7
40°	4336.4	4364.6	4307.3	4088.4	3855.8	3636.9	3625.8	4524.5	4795.6	4708.4	3072.5
42.5°	4622.9	4644.2	4646.0	4491.2	4281.7	4182.5	4085.0	4963.2	5447.2	5346.3	3443.6
45°	4984.6	5015.4	4997.4	4892.2	4735.7	4717.8	4667.3	5493.4	6227.1	6099.7	3925.1
47.5°	5543.9	5564.4	5519.9	5395.9	5236.9	5265.1	5235.1	6087.7	7022.4	6912.9	4423.6
50°	5932.1	5966.3	6029.6	6079.2	5963.7	5859.4	5770.5	6642.7	7777.5	7679.1	4933.3
52.5°	5927.8	5984.2	6184.3	6434.0	6686.3	6654.7	6399.0	7255.8	8498.3	8376.9	5412.2
55°	5528.5	5637.9	5932.1	6375.0	7073.7	7421.7	7305.4	7965.6	9120.9	9038.8	5967.1
57.5°	4704.1	4770.8	5179.6	5798.7	6857.3	7782.6	8355.5	8927.6	9867.4	9828.9	6829.1
60°	3164.0	3193.9	3719.8	4485.2	5838.0	7422.6	9125.2	10091.5	10786.7	10767.9	7835.6
62.5°	1812.9	1825.7	2207.1	2852.7	4154.3	6290.4	9190.2	11527.2	11889.0	11899.2	9000.3
65°	975.7	982.6	1290.4	1674.4	2527.8	4483.5	8264.0	12314.0	12780.0	12799.7	9722.0
66°	842.3	809.8	1027.0	1427.2	2011.3	3568.5	7678.3	12285.7	12951.0	12929.7	9696.4
67.5°	640.5	669.6	820.1	1097.1	1490.5	2537.2	6339.1	11739.3	12821.1	12754.4	9302.2
70°	458.4	470.3	584.1	782.5	1015.0	1392.2	4050.8	9750.3	11652.9	11563.2	8104.1
72.5°	295.9	308.7	413.9	566.1	733.7	760.2	2267.8	7044.6	8984.1	8971.2	6103.1
75°	211.2	223.2	273.6	405.3	551.6	470.3	1092.0	4747.7	5711.5	5673.0	3775.4
77.5°	153.1	159.1	183.0	265.1	394.2	336.9	506.2	2535.5	2843.3	2977.6	1668.4
80°	88.1	93.2	127.4	161.6	266.8	230.0	242.0	1017.6	1049.3	998.8	521.6
82.5°	43.6	49.6	76.1	110.3	166.8	154.8	111.2	306.1	323.2	314.7	131.7
85°	10.3	12.8	42.8	72.7	81.2	69.3	53.9	89.8	111.2	108.6	50.5
87.5°	0.9	1.7	15.4	12.8	13.7	23.1	18.8	23.1	35.9	33.4	18.0
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°	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7
2.5°	1275.9	1259.6	1212.6	1166.4	1127.9	1087.7	1051.0	1029.6	1021.0	1011.6	1015.9
5°	1293.8	1254.5	1159.6	1077.5	997.1	928.7	873.9	838.9	821.8	819.2	814.9
7.5°	1317.8	1250.2	1103.1	974.9	869.7	793.6	731.1	680.7	665.3	651.6	640.5
10°	1346.8	1242.5	1033.0	867.1	755.1	659.3	577.2	517.4	486.6	478.0	484.0
12.5°	1377.6	1228.0	959.5	767.9	638.8	516.5	440.4	410.5	401.9	398.5	399.3
15°	1408.4	1210.0	882.5	672.1	508.8	412.2	377.1	369.4	366.0	364.3	362.6
17.5°	1436.6	1180.9	796.1	578.9	412.2	352.3	339.5	332.6	325.8	323.2	319.0
20°	1470.0	1147.6	718.3	474.6	348.9	319.0	303.6	290.7	280.5	273.6	272.8
22.5°	1501.6	1104.8	637.1	393.4	318.1	286.5	261.7	248.0	236.0	227.5	230.0
25°	1518.7	1052.7	564.4	342.9	289.9	254.0	226.6	209.5	196.7	192.4	191.6
27.5°	1518.7	988.5	493.4	313.8	264.2	224.9	196.7	180.4	171.9	165.9	166.8
30°	1506.8	917.6	427.6	291.6	242.0	199.2	172.7	158.2	151.4	147.1	146.2
32.5°	1497.3	850.0	371.1	270.2	218.9	177.0	153.9	142.8	136.0	131.7	131.7
35°	1511.9	791.9	327.5	248.8	197.5	159.9	139.4	129.1	122.3	118.9	118.0
37.5°	1550.4	738.8	294.2	225.8	177.9	145.4	129.1	117.2	110.3	106.0	104.3
40°	1645.3	708.9	269.4	204.4	159.1	133.4	117.2	106.0	97.5	93.2	92.4
42.5°	1797.5	709.8	245.4	184.7	144.5	123.1	106.9	94.1	84.7	80.4	79.5
45°	2026.7	742.3	226.6	165.9	131.7	112.0	95.8	82.1	73.5	69.3	69.3
47.5°	2301.2	805.5	210.4	149.6	119.7	101.8	84.7	71.0	62.4	59.0	59.0
50°	2598.8	887.6	194.1	132.5	109.5	90.6	72.7	61.6	54.7	52.2	52.2
52.5°	2902.3	986.8	177.9	118.9	98.3	78.7	62.4	54.7	48.7	47.0	46.2
55°	3300.8	1113.4	160.8	104.3	86.4	67.6	55.6	47.9	41.0	38.5	37.6
57.5°	3914.0	1304.1	142.0	91.5	71.0	56.4	47.9	40.2	32.5	28.2	27.4
60°	4653.7	1536.7	122.3	80.4	57.3	46.2	38.5	30.8	23.9	18.8	18.0
62.5°	5346.3	1684.6	103.5	67.6	45.3	35.1	27.4	23.1	17.1	12.0	11.1
65°	5652.5	1635.0	85.5	54.7	35.9	24.8	18.0	16.2	10.3	5.1	4.3
66°	5550.7	1561.5	78.7	49.6	32.5	21.4	15.4	13.7	7.7	2.6	2.6
67.5°	5250.5	1387.9	68.4	42.8	28.2	17.1	12.0	10.3	4.3	0.9	0.0
70°	4498.9	1122.8	53.9	31.6	20.5	12.0	6.8	5.1	2.6	0.0	0.0
72.5°	3455.6	836.3	42.8	23.9	14.5	6.8	3.4	1.7	2.6	0.0	0.0
75°	2117.3	478.0	33.4	18.0	9.4	4.3	2.6	0.0	2.6	0.9	0.0
77.5°	939.8	214.6	22.2	12.0	6.8	3.4	1.7	0.0	1.7	0.9	0.0
80°	237.7	70.1	12.8	8.6	5.1	2.6	0.9	0.0	1.7	1.7	0.9
82.5°	65.0	25.7	9.4	6.8	4.3	2.6	0.9	0.0	1.7	1.7	1.7
85°	25.7	12.0	8.6	6.8	5.1	2.6	0.9	0.0	1.7	1.7	1.7
87.5°	12.0	8.6	8.6	7.7	6.0	2.6	0.9	0.0	1.7	0.9	1.7
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)