

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: P650865

Luminaire Tested: **GALN-SA4C-840-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650865
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-SA4C-840-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1050mA 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: 17485.2 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

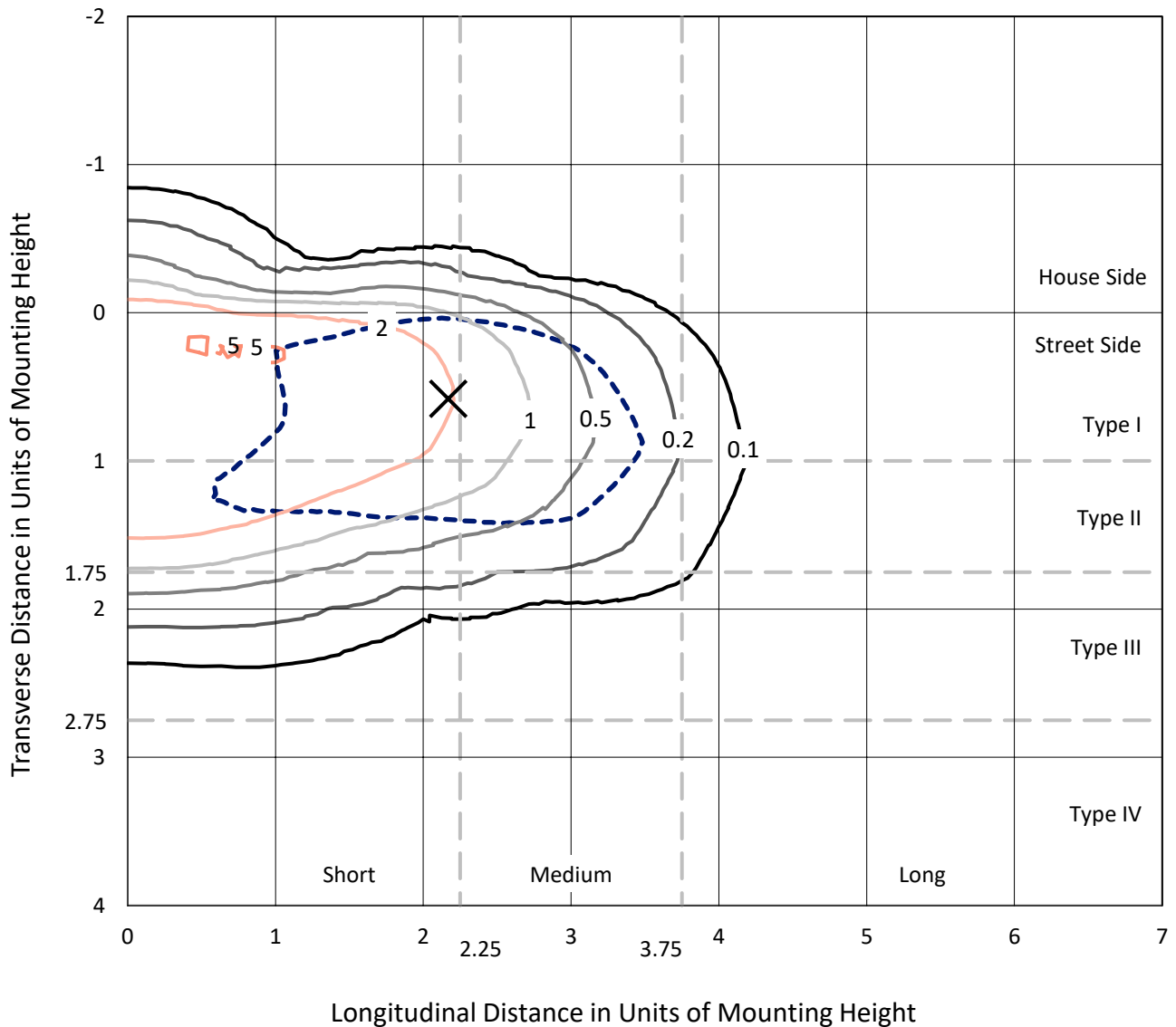
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

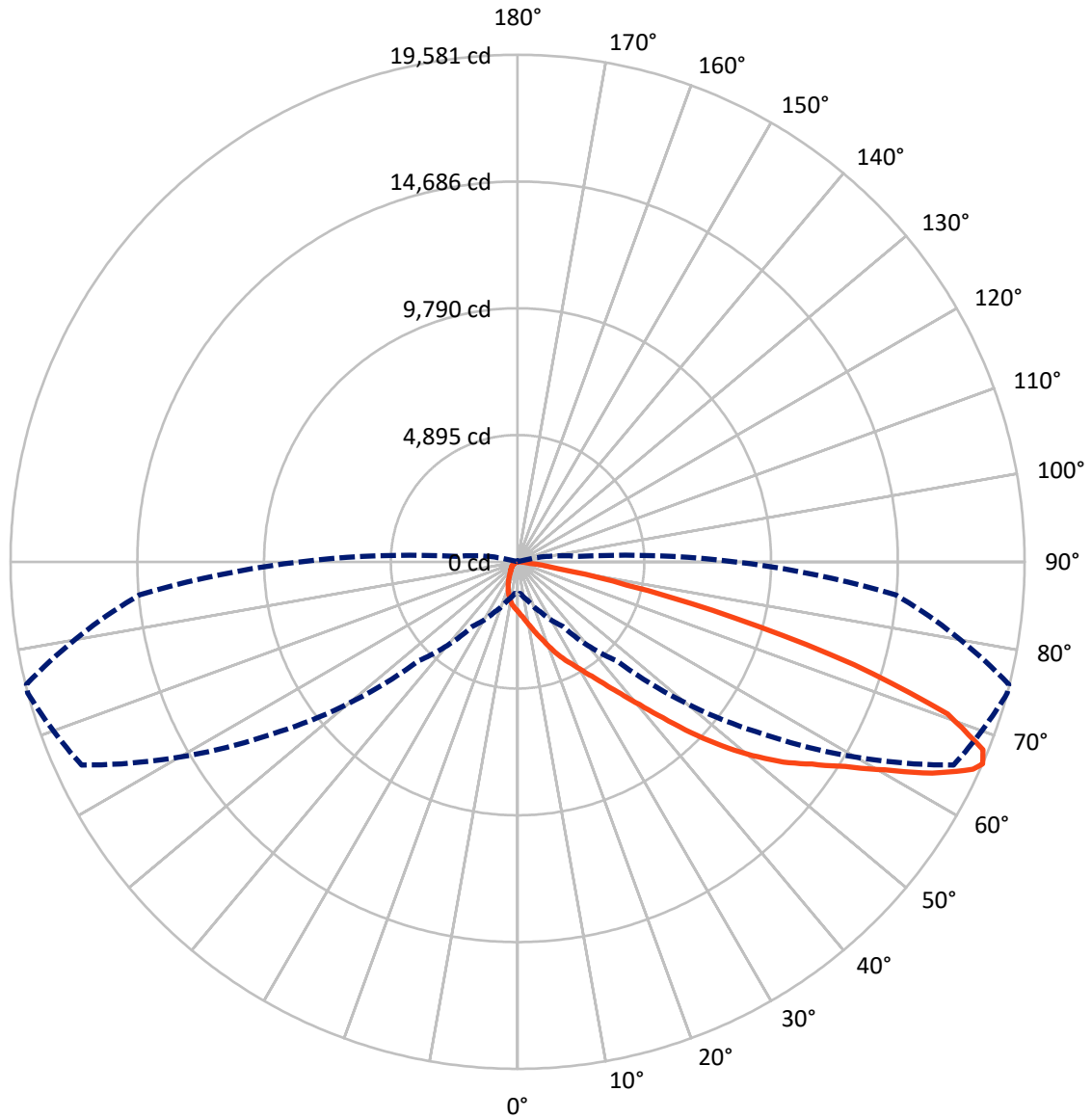
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	1079.5	0.0	1079.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	16405.8	0.0	16405.8
	% Fixture	93.8	0.0	93.8
Total	Lumens	17485.2	0.0	17485.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.4	1.1
10°-20°	542.8	3.1
20°-30°	937.3	5.4
30°-40°	1690.7	9.7
40°-50°	3054.2	17.5
50°-60°	4761.6	27.2
60°-70°	4523.3	25.9
70°-80°	1695.2	9.7
80°-90°	95.7	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°	17485.2	100.0
0°-180°	17485.2	100.0

Coefficient of Utilization

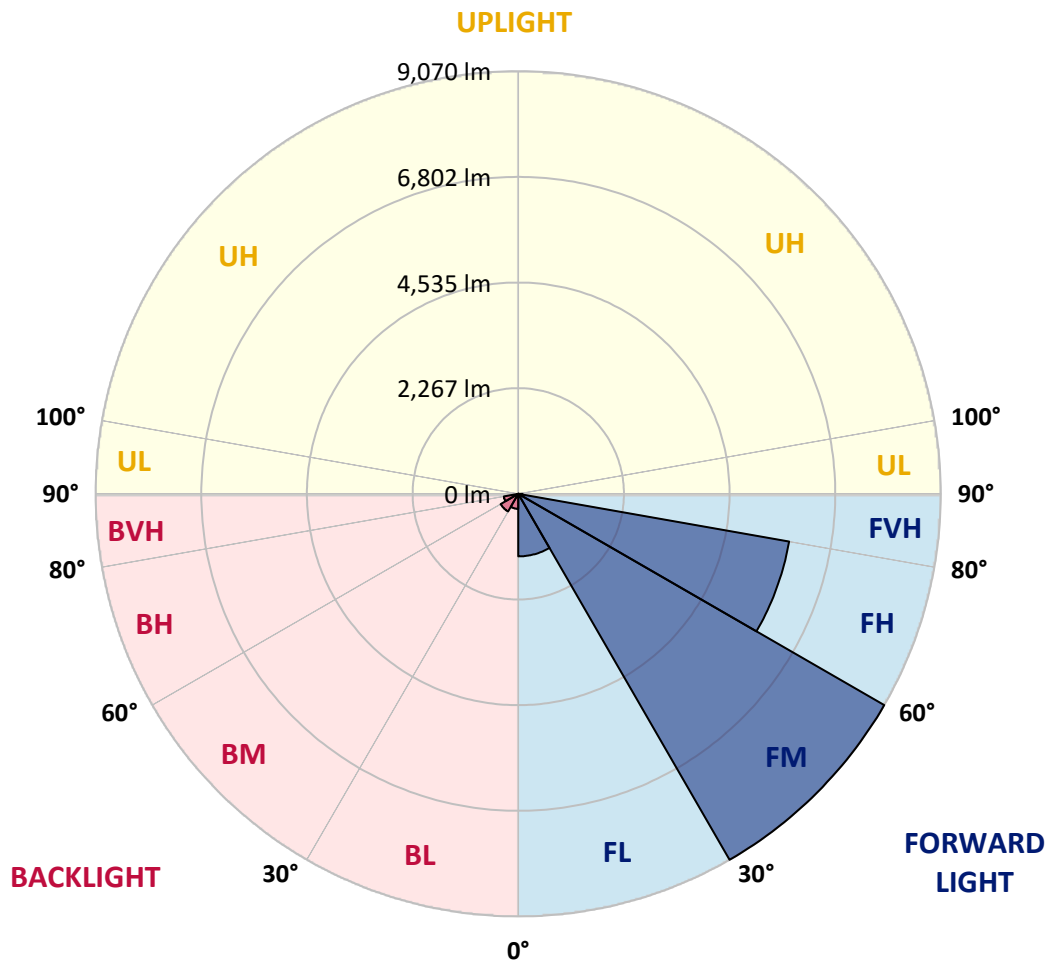


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1342.1	7.7			
FM (30°-60°)	9069.6	51.9			
FH (60°-80°)	5903.3	33.8			G3/7500
FVH (80°-90°)	90.7	0.5			G1/100
BL (0°-30°)	322.4	1.8	B1/500		
BM (30°-60°)	436.9	2.5	B1/1000		
BH (60°-80°)	315.2	1.8	B1/500		G1/500
BVH (80°-90°)	4.9	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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1912.2	1912.2	1912.2	1912.2	1912.2	1912.2	1912.2	1912.2	1912.2	1912.2	1912.2
2.5°	2284.6	2256.1	2265.1	2252.2	2222.5	2178.5	2139.8	2084.2	2028.6	2019.5	1957.4
5°	2585.7	2578.0	2567.7	2530.1	2509.5	2442.3	2362.1	2266.4	2151.4	2130.7	2018.2
7.5°	2791.4	2787.5	2792.6	2773.3	2755.1	2694.4	2609.0	2478.4	2300.1	2288.4	2101.0
10°	2858.6	2868.9	2888.3	2919.4	2947.8	2928.4	2863.8	2700.9	2492.7	2459.1	2195.3
12.5°	2819.8	2831.4	2878.0	2960.7	3052.5	3105.6	3079.7	2960.7	2697.0	2669.8	2301.3
15°	2720.2	2734.4	2800.4	2928.4	3092.6	3242.6	3307.2	3221.9	2934.8	2890.9	2429.3
17.5°	2572.9	2593.6	2687.9	2857.3	3082.3	3340.8	3523.1	3494.7	3188.2	3146.9	2569.0
20°	2461.7	2477.2	2557.3	2751.2	3038.3	3395.1	3728.7	3808.9	3501.2	3430.0	2733.2
22.5°	2535.4	2540.5	2567.7	2684.1	2959.4	3409.3	3909.7	4136.0	3833.4	3770.0	2903.8
25°	2896.1	2844.3	2817.2	2791.4	2942.6	3396.4	4073.9	4477.3	4164.4	4097.2	3073.2
27.5°	3464.9	3441.7	3304.6	3121.0	3086.1	3413.2	4182.5	4800.5	4476.0	4403.6	3238.7
30°	4084.2	4044.1	3960.1	3691.2	3421.0	3532.2	4261.3	5114.7	4844.5	4748.8	3390.0
32.5°	4653.1	4679.0	4553.6	4276.9	3964.0	3785.6	4363.5	5457.2	5267.3	5148.3	3565.8
35°	5316.4	5368.1	5175.4	4910.4	4544.5	4243.3	4562.6	5843.9	5803.7	5653.8	3837.3
37.5°	5989.9	6021.0	5903.3	5531.0	5201.3	4825.1	4937.5	6321.0	6464.4	6336.4	4161.8
40°	6556.3	6598.9	6512.3	6181.3	5829.6	5498.6	5481.9	6840.7	7250.5	7118.6	4645.3
42.5°	6989.4	7021.7	7024.3	6790.2	6473.5	6323.5	6176.1	7503.9	8235.7	8083.1	5206.5
45°	7536.3	7582.8	7555.6	7396.6	7160.0	7132.9	7056.6	8305.5	9414.8	9222.2	5934.3
47.5°	8381.8	8412.9	8345.6	8158.1	7917.7	7960.3	7915.1	9204.1	10617.2	10451.7	6688.1
50°	8968.8	9020.5	9116.2	9191.1	9016.6	8858.8	8724.4	10043.1	11758.9	11610.2	7458.7
52.5°	8962.3	9047.6	9350.2	9727.7	10109.1	10061.3	9674.7	10970.2	12848.7	12665.1	8182.7
55°	8358.5	8524.0	8968.8	9638.4	10694.7	11221.0	11045.2	12043.3	13790.0	13665.8	9021.7
57.5°	7112.2	7213.0	7831.1	8767.1	10367.7	11766.6	12632.8	13497.8	14918.7	14860.5	10325.0
60°	4783.7	4828.9	5624.1	6781.2	8826.5	11222.3	13796.4	15257.4	16308.5	16280.1	11846.7
62.5°	2740.9	2760.3	3336.9	4313.1	6280.8	9510.5	13894.7	17428.1	17975.0	17990.6	13607.6
65°	1475.2	1485.5	1951.0	2531.5	3821.8	6778.6	12494.5	18617.6	19322.2	19352.0	14698.8
66°	1273.5	1224.3	1552.7	2157.8	3040.9	5395.3	11608.8	18574.9	19580.8	19548.5	14660.1
67.5°	968.4	1012.3	1239.9	1658.8	2253.5	3836.0	9584.2	17748.8	19384.3	19283.5	14064.0
70°	693.0	711.1	883.0	1183.0	1534.7	2104.9	6124.4	14741.6	17618.2	17482.5	12252.7
72.5°	447.3	466.8	625.8	855.9	1109.3	1149.4	3428.8	10650.8	13583.1	13563.7	9227.4
75°	319.3	337.4	413.7	612.8	833.9	711.1	1651.1	7178.1	8635.2	8577.0	5708.1
77.5°	231.4	240.4	276.7	400.8	596.0	509.4	765.4	3833.4	4298.9	4501.9	2522.4
80°	133.1	141.0	192.7	244.4	403.3	347.8	365.9	1538.5	1586.4	1510.1	788.7
82.5°	65.9	75.0	115.0	166.8	252.1	234.1	168.1	462.9	488.7	475.8	199.1
85°	15.5	19.4	64.7	109.9	122.8	104.7	81.5	135.7	168.1	164.2	76.3
87.5°	1.3	2.6	23.3	19.4	20.7	34.9	28.4	34.9	54.3	50.5	27.2
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°	1912.2	1912.2	1912.2	1912.2	1912.2	1912.2	1912.2	1912.2	1912.2	1912.2	1912.2
2.5°	1929.0	1904.4	1833.3	1763.5	1705.3	1644.6	1589.0	1556.6	1543.7	1529.5	1535.9
5°	1956.2	1896.7	1753.1	1629.0	1507.5	1404.0	1321.3	1268.3	1242.5	1238.6	1232.1
7.5°	1992.3	1890.2	1667.8	1473.9	1314.9	1199.8	1105.4	1029.1	1005.8	985.1	968.4
10°	2036.3	1878.5	1561.8	1311.0	1141.7	996.8	872.7	782.2	735.6	722.8	731.8
12.5°	2082.8	1856.6	1450.6	1161.0	965.8	780.9	665.8	620.6	607.6	602.5	603.8
15°	2129.4	1829.4	1334.2	1016.2	769.3	623.2	570.2	558.5	553.4	550.8	548.2
17.5°	2172.1	1785.4	1203.6	875.3	623.2	532.7	513.3	502.9	492.6	488.7	482.2
20°	2222.5	1735.1	1086.1	717.5	527.5	482.2	458.9	439.6	424.0	413.7	412.4
22.5°	2270.3	1670.4	963.2	594.8	481.0	433.1	395.6	374.9	356.8	343.9	347.8
25°	2296.2	1591.5	853.3	518.5	438.3	384.0	342.6	316.7	297.4	290.9	289.6
27.5°	2296.2	1494.5	746.0	474.5	399.5	340.0	297.4	272.8	259.9	250.8	252.1
30°	2278.1	1387.2	646.5	440.9	365.9	301.2	261.1	239.2	228.8	222.4	221.1
32.5°	2263.9	1285.1	561.1	408.6	331.0	267.6	232.7	215.9	205.5	199.1	199.1
35°	2285.8	1197.2	495.2	376.3	298.6	241.8	210.8	195.2	184.9	179.7	178.5
37.5°	2344.0	1117.0	444.7	341.4	269.0	219.8	195.2	177.1	166.8	160.3	157.8
40°	2487.5	1071.8	407.3	309.0	240.4	201.7	177.1	160.3	147.4	141.0	139.6
42.5°	2717.7	1073.1	371.0	279.3	218.5	186.2	161.6	142.2	128.0	121.5	120.3
45°	3064.2	1122.2	342.6	250.8	199.1	169.4	144.8	124.1	111.2	104.7	104.7
47.5°	3479.1	1217.9	318.1	226.2	181.0	153.8	128.0	107.3	94.4	89.2	89.2
50°	3929.1	1342.0	293.5	200.4	165.5	137.1	109.9	93.1	82.8	78.9	78.9
52.5°	4388.1	1492.0	269.0	179.7	148.7	118.9	94.4	82.8	73.7	71.1	69.8
55°	4990.6	1683.3	243.0	157.8	130.6	102.1	84.0	72.4	62.1	58.2	56.9
57.5°	5917.5	1971.6	214.6	138.3	107.3	85.4	72.4	60.8	49.1	42.6	41.4
60°	7035.9	2323.3	184.9	121.5	86.6	69.8	58.2	46.5	36.2	28.4	27.2
62.5°	8083.1	2547.0	156.4	102.1	68.5	53.0	41.4	34.9	25.8	18.1	16.8
65°	8546.0	2472.0	129.3	82.8	54.3	37.5	27.2	24.6	15.5	7.7	6.5
66°	8392.2	2360.9	118.9	75.0	49.1	32.3	23.3	20.7	11.6	3.9	3.9
67.5°	7938.4	2098.4	103.4	64.7	42.6	25.8	18.1	15.5	6.5	1.3	0.0
70°	6801.9	1697.6	81.5	47.9	31.0	18.1	10.3	7.7	3.9	0.0	0.0
72.5°	5224.5	1264.4	64.7	36.2	22.0	10.3	5.1	2.6	3.9	0.0	0.0
75°	3201.2	722.8	50.5	27.2	14.2	6.5	3.9	0.0	3.9	1.3	0.0
77.5°	1420.9	324.5	33.6	18.1	10.3	5.1	2.6	0.0	2.6	1.3	0.0
80°	359.4	106.1	19.4	13.0	7.7	3.9	1.3	0.0	2.6	2.6	1.3
82.5°	98.2	38.8	14.2	10.3	6.5	3.9	1.3	0.0	2.6	2.6	2.6
85°	38.8	18.1	13.0	10.3	7.7	3.9	1.3	0.0	2.6	2.6	2.6
87.5°	18.1	13.0	13.0	11.6	9.1	3.9	1.3	0.0	2.6	1.3	2.6
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)