

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: P648322

Luminaire Tested: **GALN-SA3B-835-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648322
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-835-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10940.9 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

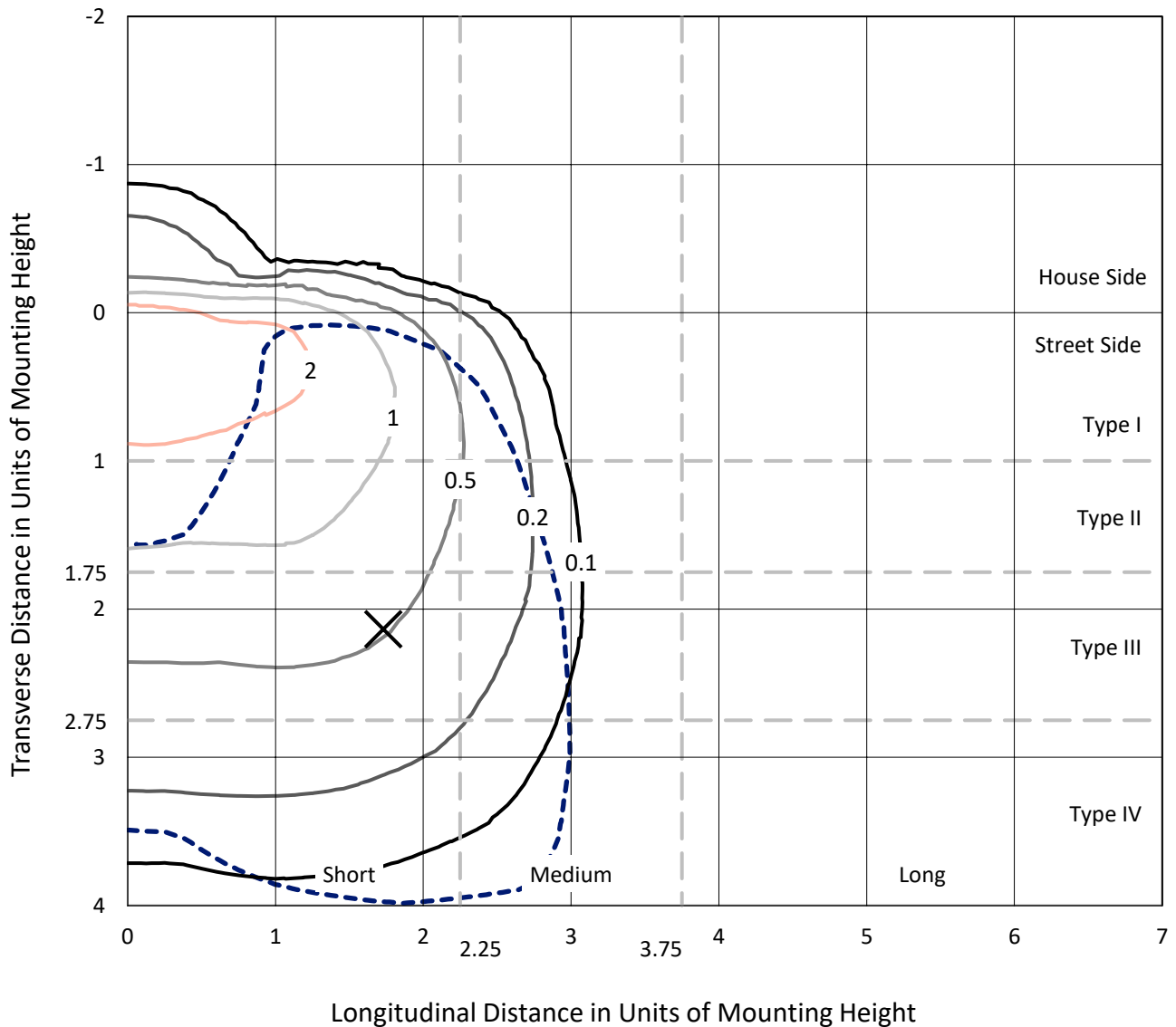
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

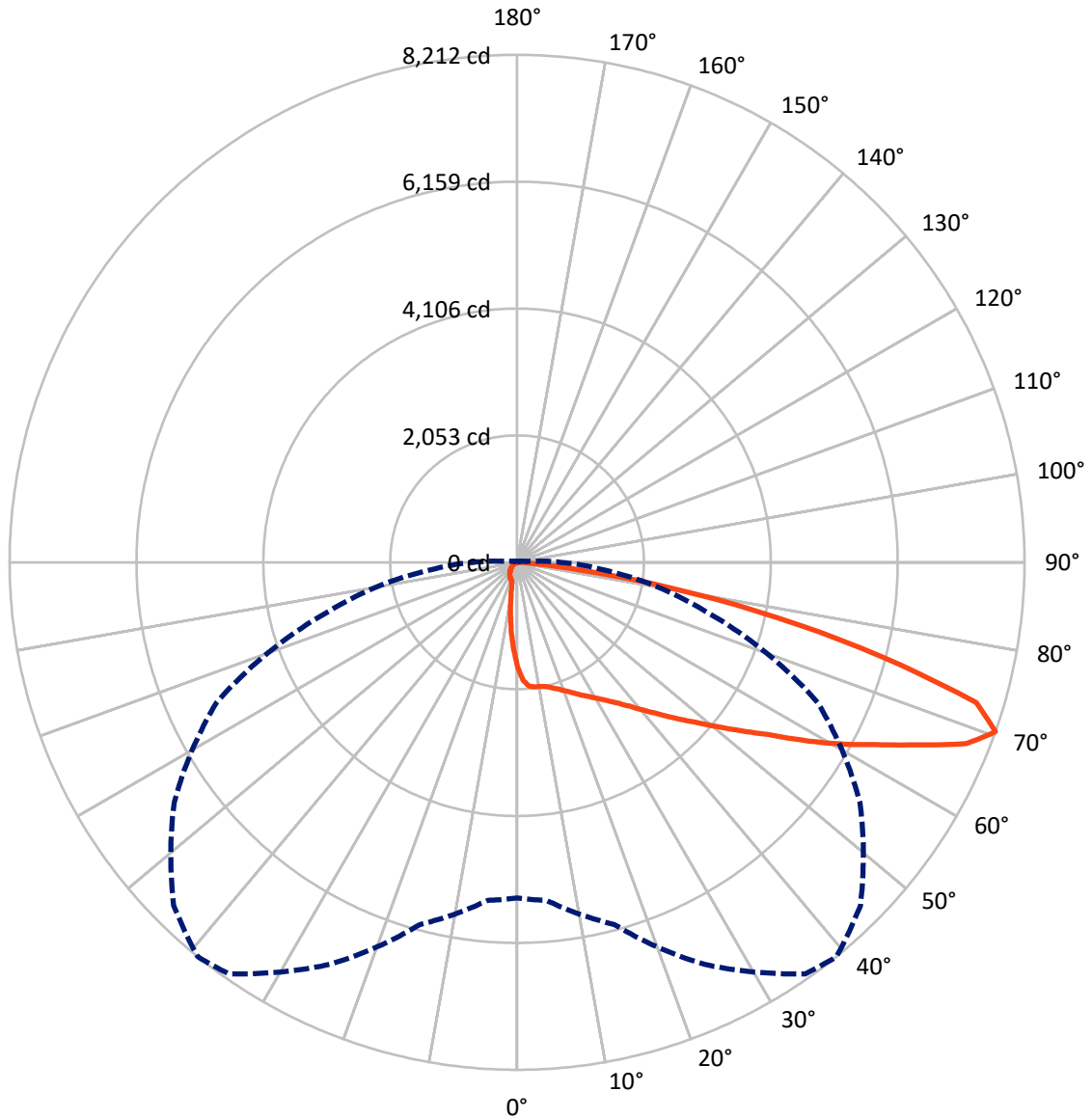
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	713.4	0.0	713.4
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	10227.5	0.0	10227.5
	% Fixture	93.5	0.0	93.5
Total	Lumens	10940.9	0.0	10940.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.6	1.3
10°-20°	378.4	3.5
20°-30°	633.9	5.8
30°-40°	983.1	9.0
40°-50°	1557.9	14.2
50°-60°	2283.7	20.9
60°-70°	2927.2	26.8
70°-80°	1839.4	16.8
80°-90°	191.6	1.8
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°	10940.9	100.0
0°-180°	10940.9	100.0

Coefficient of Utilization



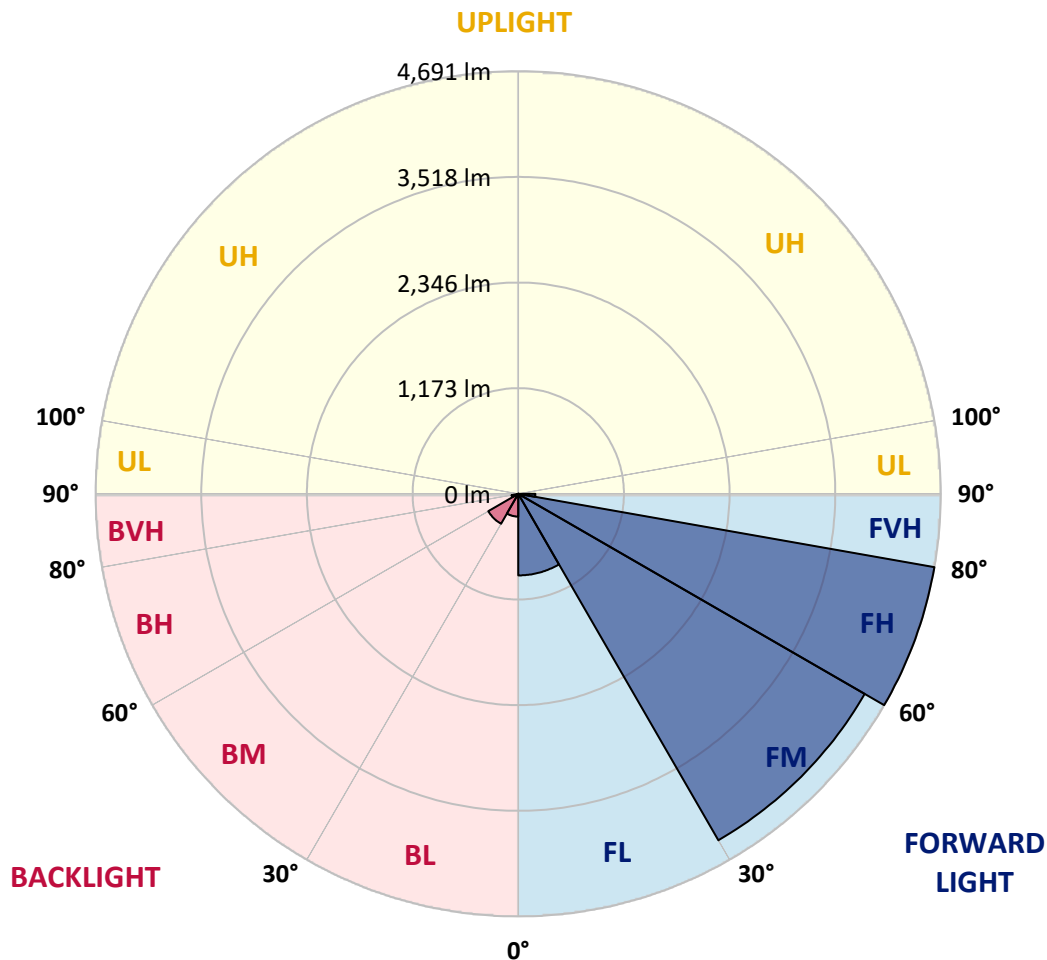
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	905.3	8.3			
FM	(30°-60°)	4440.9	40.6			
FH	(60°-80°)	4691.1	42.9			G2/5000
FVH	(80°-90°)	190.2	1.7			G2/225
BL	(0°-30°)	252.6	2.3	B1/500		
BM	(30°-60°)	383.9	3.5	B1/1000		
BH	(60°-80°)	75.5	0.7	B0/110		G0/110
BVH	(80°-90°)	1.4	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2
2.5°	1972.5	1966.0	1957.1	1946.9	1917.4	1912.2	1894.6	1857.1	1812.3	1775.5	1724.8
5°	2065.9	2069.6	2063.0	2044.6	2023.3	2010.8	1988.7	1930.6	1872.5	1798.3	1715.2
7.5°	2087.2	2094.6	2086.5	2068.8	2048.2	2035.0	2017.4	1967.4	1899.8	1815.2	1701.3
10°	2085.1	2093.9	2088.7	2072.5	2055.6	2043.2	2024.1	1984.4	1929.9	1841.0	1705.7
12.5°	2081.4	2093.1	2092.4	2084.3	2070.3	2060.8	2049.0	2013.7	1963.0	1878.4	1730.0
15°	2071.1	2085.8	2099.0	2105.6	2106.3	2106.3	2091.6	2054.2	2005.7	1927.7	1761.6
17.5°	2075.5	2092.4	2125.5	2144.6	2157.9	2156.4	2141.0	2100.5	2046.8	1978.4	1794.6
20°	2102.7	2125.5	2171.8	2210.0	2223.3	2218.9	2198.3	2151.2	2090.2	2021.8	1827.0
22.5°	2169.6	2190.2	2248.2	2293.1	2302.6	2290.9	2261.5	2197.6	2142.4	2068.8	1866.0
25°	2269.6	2293.9	2347.5	2381.3	2381.3	2374.7	2333.6	2258.6	2201.2	2134.3	1916.7
27.5°	2390.9	2411.5	2464.4	2494.6	2476.9	2457.8	2416.7	2326.2	2271.1	2216.7	1977.7
30°	2513.7	2526.9	2582.8	2596.0	2577.6	2553.4	2509.3	2418.8	2370.3	2328.4	2065.9
32.5°	2629.9	2658.5	2704.8	2701.9	2676.9	2665.1	2624.7	2528.4	2501.1	2496.8	2189.4
35°	2746.0	2768.1	2809.2	2819.5	2797.4	2795.2	2765.9	2694.5	2695.2	2724.0	2382.0
37.5°	2846.0	2865.9	2914.3	2937.1	2941.6	2952.6	2940.8	2893.8	2960.7	3039.4	2637.2
40°	2929.8	2957.7	3019.5	3059.2	3104.8	3145.2	3147.4	3157.7	3292.3	3427.5	2970.2
42.5°	2995.2	3034.2	3123.9	3197.4	3301.8	3353.3	3394.5	3451.1	3677.5	3879.7	3362.8
45°	3080.5	3125.3	3237.1	3352.6	3515.7	3600.3	3657.6	3809.1	4130.4	4406.1	3765.8
47.5°	3221.7	3245.2	3359.1	3527.5	3742.2	3862.8	3974.5	4203.9	4616.3	4863.4	4101.0
50°	3403.3	3418.7	3504.7	3738.5	4016.4	4175.3	4378.9	4648.7	5120.7	5242.7	4290.7
52.5°	3604.0	3609.2	3673.8	3970.8	4323.7	4523.7	4751.6	5084.7	5531.7	5513.3	4416.4
55°	3837.0	3829.7	3884.9	4223.0	4687.7	4916.3	5181.7	5531.0	5888.2	5705.2	4488.5
57.5°	4103.9	4084.0	4137.8	4557.5	5153.8	5427.3	5697.1	5916.2	6164.7	5866.2	4523.0
60°	4383.3	4343.6	4407.6	4933.2	5703.0	5962.5	6186.8	6245.6	6455.8	5994.1	4463.4
62.5°	4606.1	4606.8	4725.9	5333.2	6267.6	6494.8	6613.9	6666.9	6706.6	5966.2	4150.2
65°	4953.8	4965.6	5156.0	5888.2	6921.3	7118.3	7199.8	7027.8	6717.6	5619.2	3679.7
67.5°	5312.6	5350.1	5698.6	6652.9	7676.3	7835.1	7729.9	7097.7	6417.6	4827.4	2790.1
70°	5429.5	5491.3	6065.4	7179.3	8129.2	8211.6	7855.7	6772.0	5364.8	3227.5	1404.2
72.5°	4975.1	5075.1	5854.4	6987.4	7840.3	7768.9	7028.6	5679.5	3410.6	1225.6	428.6
75°	3508.4	3552.5	4865.6	5796.4	6305.9	6103.7	5346.4	3661.3	1402.7	344.1	147.0
77.5°	1811.5	1790.3	2893.8	3845.9	4497.2	4287.7	3501.0	1895.3	531.6	143.4	91.1
80°	936.6	952.1	1252.1	2015.2	2745.3	2526.2	1866.7	878.6	283.1	79.4	69.8
82.5°	524.9	492.6	719.7	880.0	1283.7	1006.5	716.1	622.0	123.5	47.8	66.2
85°	95.6	100.0	394.8	475.7	445.5	283.1	230.8	415.4	36.0	26.5	46.4
87.5°	1.5	1.5	76.5	136.7	86.8	39.7	72.8	59.6	7.4	10.3	8.1
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°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2
2.5°	1699.0	1671.2	1618.9	1567.5	1502.0	1448.4	1412.3	1374.9	1336.6	1339.6	1348.4
5°	1669.7	1621.1	1518.2	1409.4	1305.0	1210.9	1118.3	1035.2	1001.4	970.5	971.9
7.5°	1640.2	1571.9	1421.1	1250.6	1092.5	932.2	816.0	720.5	669.8	631.6	620.5
10°	1627.0	1536.6	1332.2	1097.7	873.4	698.4	549.2	471.3	411.0	391.9	397.0
12.5°	1632.9	1518.9	1252.1	959.4	692.6	486.7	382.3	342.6	329.4	327.1	325.7
15°	1643.9	1506.4	1173.4	806.5	508.8	361.7	321.3	313.9	312.5	311.0	311.7
17.5°	1658.6	1495.4	1089.5	663.1	390.4	316.2	304.4	300.7	300.0	300.0	300.0
20°	1673.3	1482.9	996.2	535.3	325.7	298.5	291.1	288.9	288.2	288.2	287.4
22.5°	1690.3	1471.9	901.4	420.5	300.0	286.0	279.4	277.9	277.2	276.4	276.4
25°	1714.5	1457.9	800.6	344.1	283.8	274.2	267.6	266.1	265.4	262.5	263.2
27.5°	1746.9	1447.6	696.9	297.0	269.1	259.6	255.1	252.9	251.4	249.2	249.9
30°	1791.0	1438.8	586.7	271.3	252.2	244.1	239.7	238.2	236.7	234.5	234.5
32.5°	1867.5	1442.4	470.5	250.7	236.7	227.1	222.8	221.3	219.8	217.6	217.6
35°	1982.1	1463.8	376.4	233.1	218.4	208.8	204.4	204.4	202.2	199.3	198.5
37.5°	2169.6	1518.2	302.2	216.2	200.7	191.9	186.7	185.3	183.1	178.7	177.9
40°	2390.9	1602.7	254.4	199.3	184.6	175.7	171.3	166.9	161.0	156.6	155.9
42.5°	2668.8	1689.5	220.6	182.4	169.1	161.0	155.9	148.5	139.7	133.8	133.1
45°	2958.5	1768.9	197.8	166.9	154.4	147.8	141.9	130.1	119.1	111.7	111.0
47.5°	3174.6	1783.6	179.4	152.2	141.9	135.3	127.2	112.5	97.8	91.1	88.9
50°	3276.8	1712.3	160.3	137.5	129.4	122.1	111.7	94.8	78.7	70.5	69.1
52.5°	3312.9	1588.8	144.9	124.3	116.9	108.1	95.6	76.5	61.8	53.6	52.9
55°	3298.2	1432.9	130.8	111.7	102.2	91.9	79.4	61.0	45.6	39.0	37.5
57.5°	3220.9	1234.4	116.9	99.3	87.5	77.2	63.3	45.6	30.9	25.0	24.3
60°	3012.9	963.9	103.0	85.3	74.2	63.3	50.0	32.3	19.1	13.9	13.9
62.5°	2661.4	715.3	89.7	71.3	62.5	50.7	35.3	20.6	10.3	7.4	6.7
65°	2224.0	527.9	75.0	60.3	52.2	39.7	25.0	12.5	5.2	2.2	1.5
67.5°	1552.0	325.7	62.5	49.3	42.7	28.7	15.4	5.2	2.2	0.0	0.0
70°	705.1	155.1	47.8	37.5	32.3	20.6	8.1	3.0	1.5	0.0	0.0
72.5°	219.1	81.6	33.8	27.2	22.1	13.2	4.4	2.2	1.5	0.0	0.0
75°	101.5	52.2	21.3	14.7	12.5	6.7	3.0	1.5	0.7	0.0	0.0
77.5°	75.7	40.4	12.5	8.1	6.7	4.4	2.2	1.5	0.7	0.0	0.0
80°	66.2	20.6	7.4	5.2	3.7	3.0	1.5	0.7	0.0	0.0	0.0
82.5°	59.6	10.3	4.4	3.0	2.2	1.5	0.7	0.7	0.0	0.0	0.0
85°	32.3	5.9	3.0	2.2	1.5	0.7	0.7	0.0	0.0	0.0	0.0
87.5°	5.9	3.0	2.2	1.5	1.5	0.7	0.7	0.7	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)