

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: P458797

Luminaire Tested: **GALN-SA3B-735-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458797
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12389 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

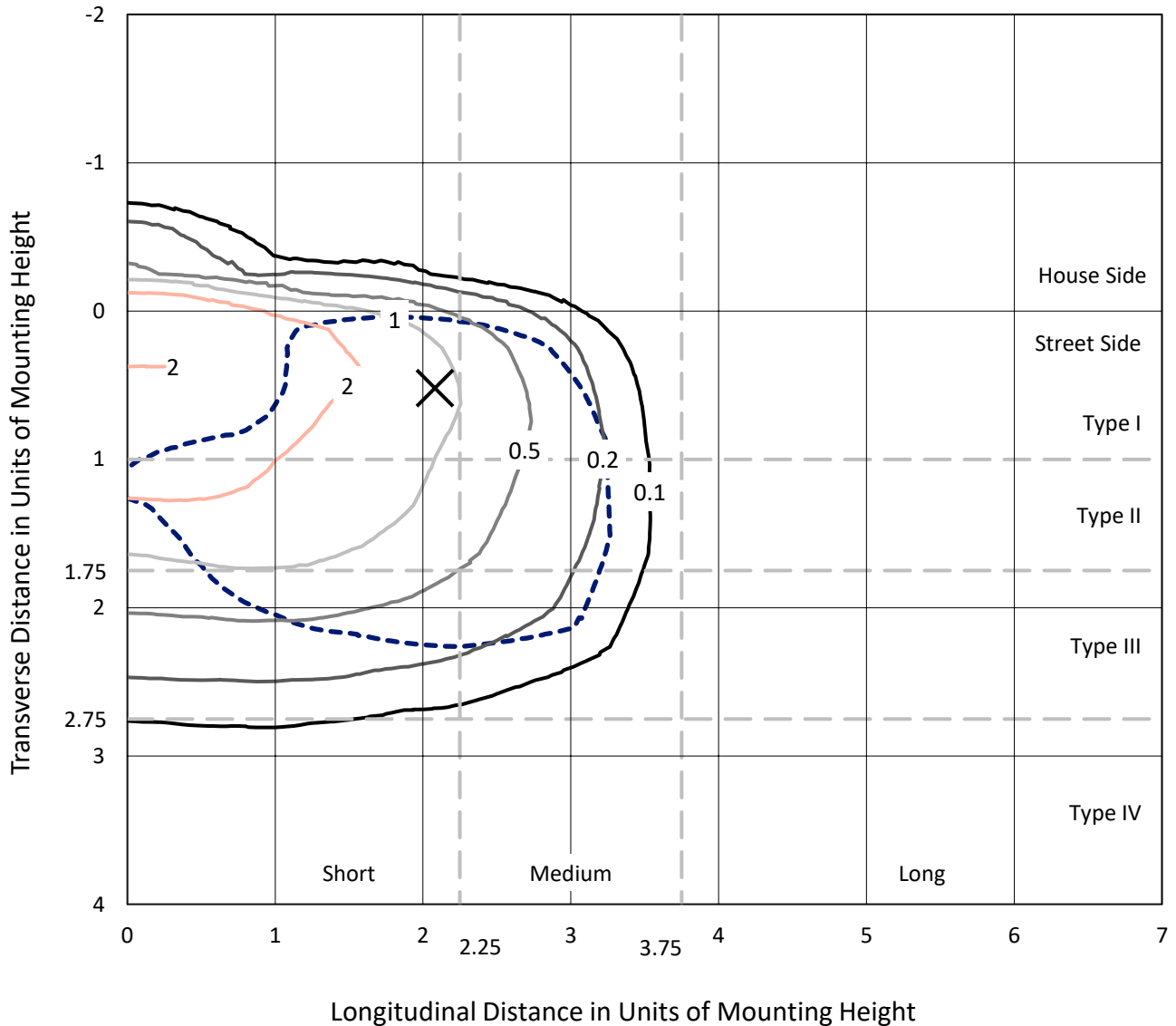
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

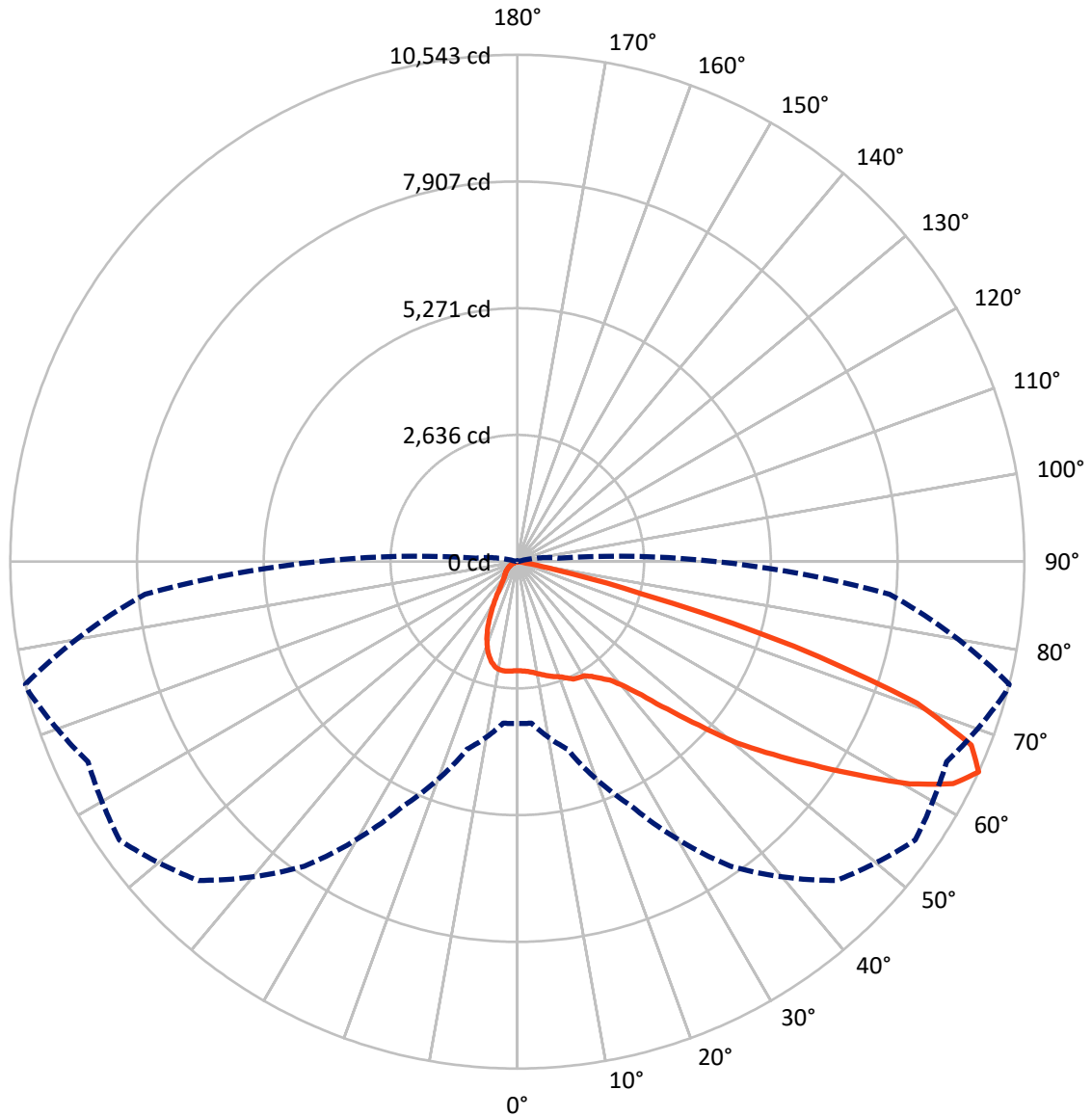
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	894.7	0.0	894.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	11494.3	0.0	11494.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	12389.0	0.0	12389.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.7	1.5
10°-20°	415.7	3.4
20°-30°	669.8	5.4
30°-40°	1164.7	9.4
40°-50°	1924.6	15.5
50°-60°	2973.1	24.0
60°-70°	3630.6	29.3
70°-80°	1377.9	11.1
80°-90°	46.0	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°	12389.0	100.0
0°-180°	12389.0	100.0

Coefficient of Utilization



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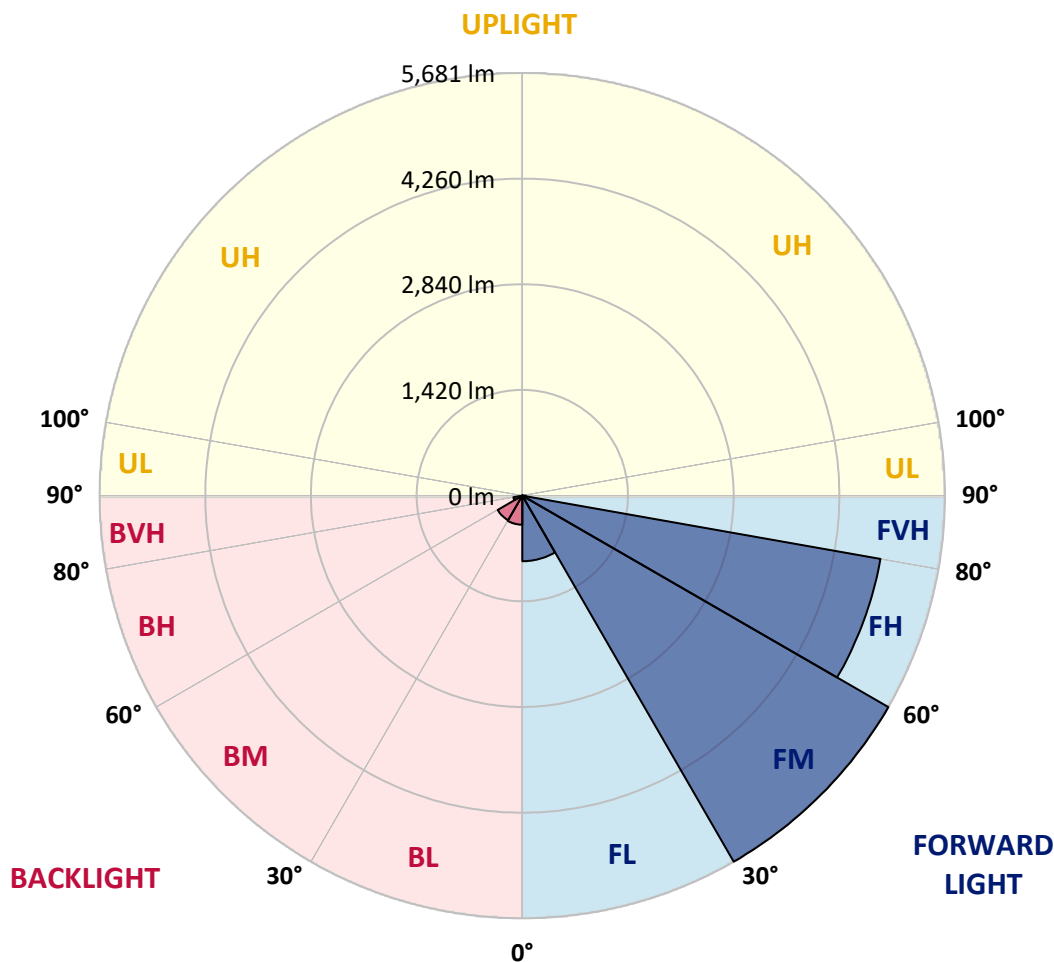
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	881.3	7.1			
FM (30°-60°)	5680.5	45.9			
FH (60°-80°)	4887.0	39.4			G2/5000
FVH (80°-90°)	45.4	0.4			G1/100
BL (0°-30°)	390.9	3.2	B1/500		
BM (30°-60°)	381.8	3.1	B1/1000		
BH (60°-80°)	121.4	1.0	B1/500		G1/500
BVH (80°-90°)	0.6	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2266.3	2266.3	2266.3	2266.3	2266.3	2266.3	2266.3	2266.3	2266.3	2266.3	2266.3
2.5°	2165.8	2166.6	2171.9	2185.0	2205.1	2221.7	2235.7	2258.5	2274.2	2276.0	2281.2
5°	2016.2	2005.7	2016.2	2050.3	2080.9	2127.3	2184.1	2241.0	2291.7	2295.2	2319.7
7.5°	1848.2	1857.0	1873.6	1908.6	1966.3	2037.2	2119.4	2220.9	2317.1	2325.8	2373.9
10°	1677.7	1696.9	1724.0	1777.4	1857.9	1949.7	2061.7	2206.9	2357.3	2369.6	2452.7
12.5°	1520.2	1529.0	1562.2	1633.9	1733.7	1863.1	2017.9	2199.0	2401.9	2416.8	2536.6
15°	1399.5	1410.9	1439.8	1504.5	1615.6	1781.8	1982.1	2196.4	2445.7	2466.6	2620.6
17.5°	1376.8	1383.8	1396.0	1439.8	1536.8	1717.0	1949.7	2195.5	2487.6	2513.0	2698.4
20°	1470.4	1464.2	1452.0	1447.6	1501.0	1667.2	1926.1	2202.5	2527.9	2556.7	2780.7
22.5°	1704.8	1712.7	1640.9	1556.1	1538.6	1659.3	1922.6	2235.7	2591.7	2625.8	2872.5
25°	2202.5	2142.1	2030.2	1827.2	1674.2	1707.4	1961.9	2314.5	2666.1	2703.7	2955.6
27.5°	2752.7	2734.3	2560.2	2226.1	1941.0	1808.9	2031.9	2374.8	2690.6	2729.1	3002.8
30°	3293.2	3315.1	3115.7	2746.6	2328.4	1996.9	2097.5	2397.5	2712.4	2752.7	3063.2
32.5°	3794.4	3820.7	3645.7	3280.1	2785.0	2322.3	2210.4	2485.9	2804.3	2845.4	3163.8
35°	4188.9	4192.4	4060.3	3769.1	3283.6	2717.7	2454.4	2640.7	2928.5	2976.6	3270.5
37.5°	4551.1	4545.8	4391.0	4139.9	3699.1	3110.4	2761.4	2819.2	3070.2	3120.0	3424.4
40°	4819.6	4823.1	4773.2	4537.1	4086.6	3473.4	3004.6	2986.2	3308.1	3386.0	3648.4
42.5°	4998.9	5031.3	5055.8	4935.9	4573.8	3920.4	3378.1	3344.0	3721.0	3785.7	3965.0
45°	5144.1	5201.8	5324.3	5318.2	5041.8	4468.8	3890.7	3820.7	4306.1	4375.2	4368.2
47.5°	5249.9	5308.5	5511.5	5633.9	5481.7	5000.7	4535.3	4475.0	5005.0	5080.2	4813.5
50°	5304.2	5374.1	5633.1	5870.1	5825.5	5513.2	5270.1	5273.6	5849.1	5921.7	5329.5
52.5°	5177.3	5268.3	5697.8	6124.6	6211.2	6003.9	5958.4	6073.9	6600.5	6662.6	5795.8
55°	4772.4	4886.9	5609.4	6341.6	6658.2	6583.0	6740.4	6916.2	7421.8	7462.1	6274.2
57.5°	4516.1	4637.7	5348.8	6526.1	7195.3	7310.7	7560.0	7688.6	8269.4	8371.7	6823.5
60°	4300.0	4395.4	5134.5	6565.5	7741.1	8201.2	8443.5	8576.4	9315.5	9382.0	7427.9
62.5°	3940.5	4049.9	4772.4	6290.8	8015.7	8914.1	9416.1	9356.6	10124.6	10171.0	7798.8
65°	3362.3	3372.0	4037.6	5600.7	7732.3	9376.8	10099.3	9850.0	10511.3	10542.7	7769.9
67.5°	2509.5	2602.2	3106.1	4402.4	6531.4	8981.4	10320.6	9863.1	10267.2	10179.7	7153.3
70°	1616.4	1687.3	2105.4	3052.7	4709.4	7495.3	9586.7	9187.0	9011.1	8817.0	5855.2
72.5°	746.1	837.1	1250.8	1744.1	2792.9	5339.2	7782.2	7463.8	6485.9	6006.6	3721.8
75°	325.4	348.1	617.5	920.2	1309.4	2823.5	5131.0	4633.3	2929.4	2675.7	1489.6
77.5°	198.6	213.4	323.6	493.3	514.3	1075.9	2764.0	2021.4	905.3	798.6	404.1
80°	134.7	151.3	235.3	258.0	175.8	300.0	1037.4	539.7	182.8	174.9	86.6
82.5°	65.6	83.1	174.1	144.3	76.1	96.2	301.8	115.5	53.4	49.9	30.6
85°	9.6	16.6	98.0	94.5	34.1	22.7	53.4	28.9	18.4	17.5	14.0
87.5°	0.0	0.0	33.2	14.9	3.5	3.5	6.1	6.1	7.0	6.1	7.0
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°	2266.3	2266.3	2266.3	2266.3	2266.3	2266.3	2266.3	2266.3	2266.3	2266.3	2266.3
2.5°	2283.8	2288.2	2271.6	2248.0	2222.6	2197.2	2161.4	2129.0	2109.8	2121.1	2093.2
5°	2324.9	2321.4	2277.7	2206.0	2110.6	1996.1	1882.4	1785.3	1753.8	1706.5	1701.3
7.5°	2381.8	2372.2	2279.5	2115.0	1899.8	1684.7	1474.7	1335.7	1256.1	1188.7	1190.5
10°	2461.4	2433.4	2259.3	1955.0	1600.7	1276.2	1008.5	824.8	745.2	719.9	699.8
12.5°	2543.6	2489.4	2203.4	1738.9	1246.4	872.1	613.2	501.2	452.2	436.5	434.7
15°	2617.1	2531.4	2105.4	1479.1	906.2	557.2	418.1	381.4	375.2	376.1	375.2
17.5°	2689.7	2564.6	1969.8	1203.6	615.8	399.7	359.5	350.8	353.4	356.9	356.0
20°	2750.1	2571.6	1796.6	918.4	435.6	350.8	337.6	335.9	338.5	341.1	341.1
22.5°	2815.7	2576.9	1591.1	635.9	356.0	326.3	319.3	319.3	322.8	326.3	327.1
25°	2864.6	2548.0	1345.3	456.6	314.0	302.6	299.1	300.0	303.5	305.3	304.4
27.5°	2872.5	2466.6	1084.6	349.9	285.2	273.8	270.3	273.8	269.4	272.0	270.3
30°	2879.5	2363.4	820.5	294.8	258.9	241.4	236.2	230.9	227.4	223.0	222.2
32.5°	2901.4	2241.9	599.2	265.0	234.4	215.2	202.9	188.1	176.7	173.2	172.3
35°	2911.0	2095.8	440.0	241.4	212.6	191.6	169.7	148.7	132.1	126.0	130.3
37.5°	2947.7	1954.1	341.1	223.9	193.3	167.1	139.1	112.8	97.1	93.6	95.3
40°	3023.0	1800.1	286.0	209.1	176.7	144.3	110.2	84.8	74.3	70.9	70.0
42.5°	3143.7	1647.1	254.5	195.1	160.1	121.6	86.6	66.5	57.7	55.1	55.1
45°	3290.6	1500.1	232.7	180.2	142.6	98.0	68.2	53.4	48.1	46.4	46.4
47.5°	3483.9	1371.5	214.3	165.3	123.3	77.8	55.1	46.4	42.9	43.7	44.6
50°	3679.9	1276.2	194.2	148.7	101.5	63.9	47.2	41.1	40.2	41.1	41.1
52.5°	3827.7	1220.2	167.1	126.0	79.6	53.4	42.0	38.5	37.6	35.9	35.9
55°	4027.1	1208.0	133.0	102.3	63.0	44.6	37.6	35.0	32.4	30.6	29.7
57.5°	4283.4	1222.0	102.3	79.6	49.0	36.7	33.2	28.9	25.4	21.9	21.9
60°	4442.6	1190.5	79.6	61.2	35.9	29.7	25.4	21.0	16.6	14.0	13.1
62.5°	4391.9	1057.5	63.0	45.5	25.4	21.9	16.6	14.0	9.6	7.0	6.1
65°	4130.3	853.7	50.7	31.5	18.4	13.1	8.7	8.7	4.4	0.9	0.0
67.5°	3615.1	632.4	40.2	21.0	10.5	6.1	4.4	2.6	0.0	0.0	0.0
70°	2942.5	456.6	31.5	13.1	6.1	4.4	1.7	0.9	0.0	0.0	0.0
72.5°	1868.4	261.5	24.5	7.9	4.4	1.7	0.0	0.0	0.0	0.0	0.0
75°	722.5	102.3	16.6	5.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	204.7	48.1	9.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	53.4	21.0	5.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	25.4	8.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.9	3.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.0	0.9	0.0	0.0	0.0	0.0	0.0	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)