

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: P652413

Luminaire Tested: **GALN-SA5B-840-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652413
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17594.5 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

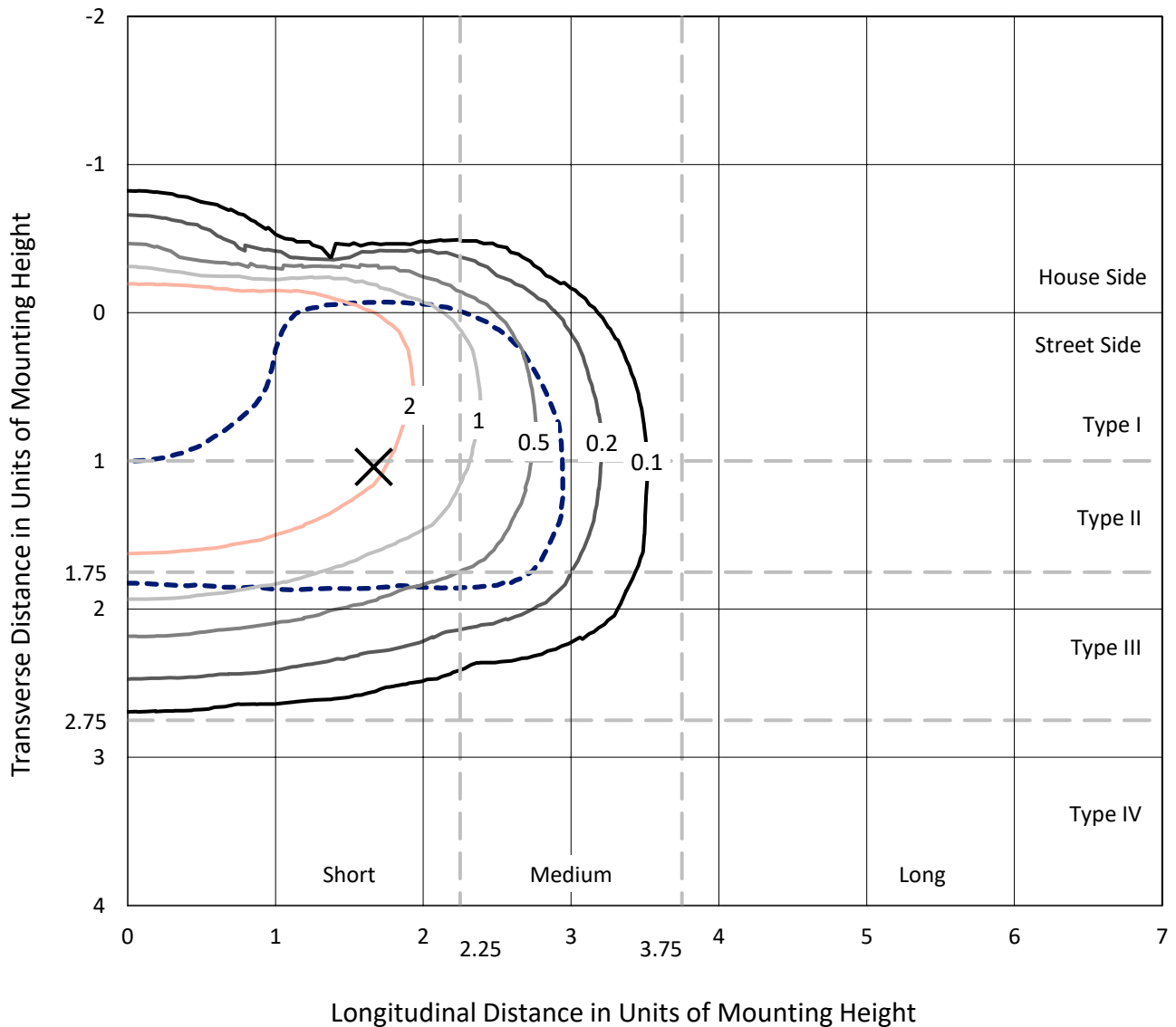
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

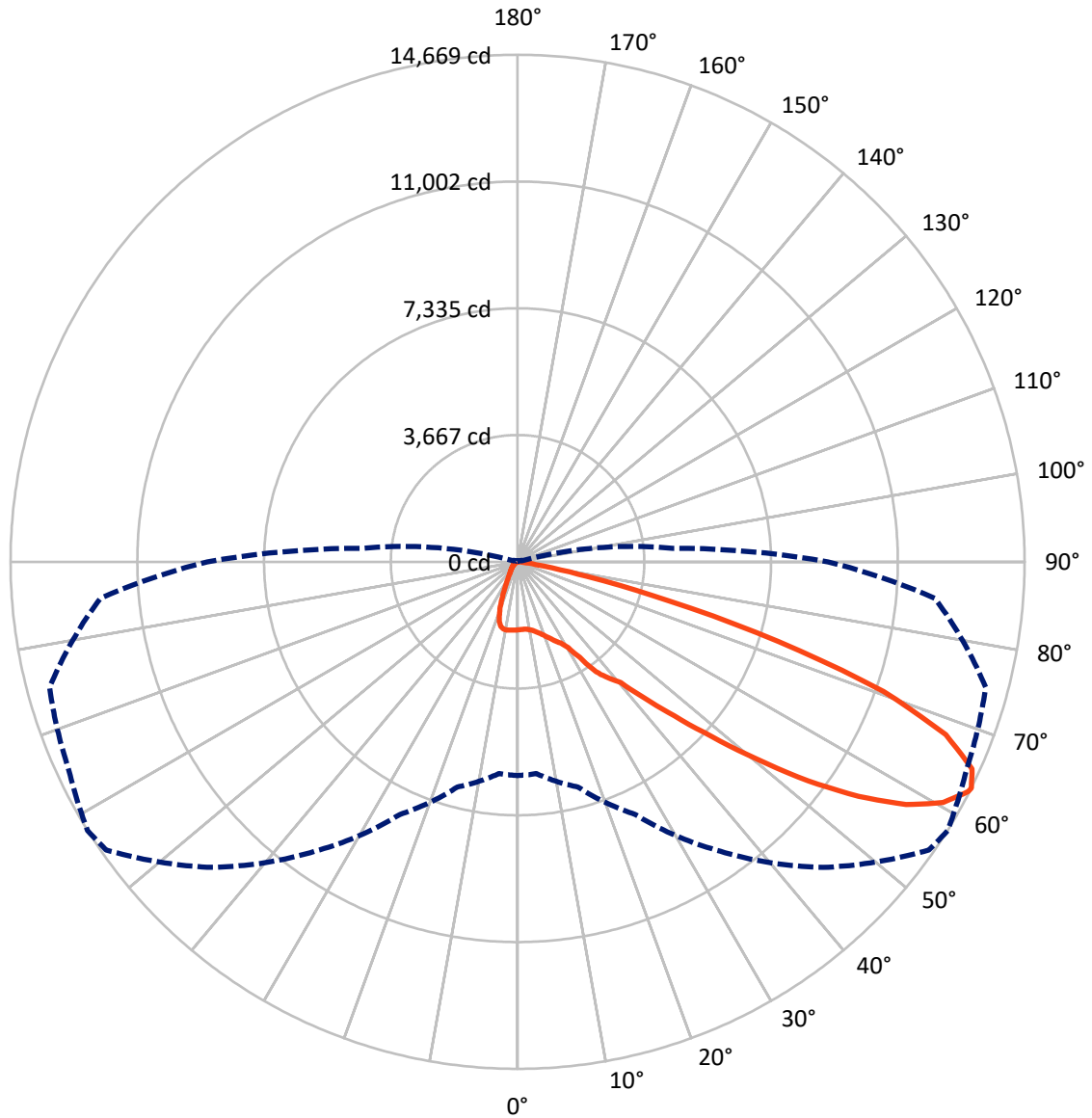
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1821.8	0.0	1821.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	15772.8	0.0	15772.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	17594.5	0.0	17594.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.4	1.0
10°-20°	502.2	2.9
20°-30°	871.6	5.0
30°-40°	1601.8	9.1
40°-50°	3015.3	17.1
50°-60°	5157.4	29.3
60°-70°	4938.2	28.1
70°-80°	1259.3	7.2
80°-90°	64.4	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°	17594.5	100.0
0°-180°	17594.5	100.0



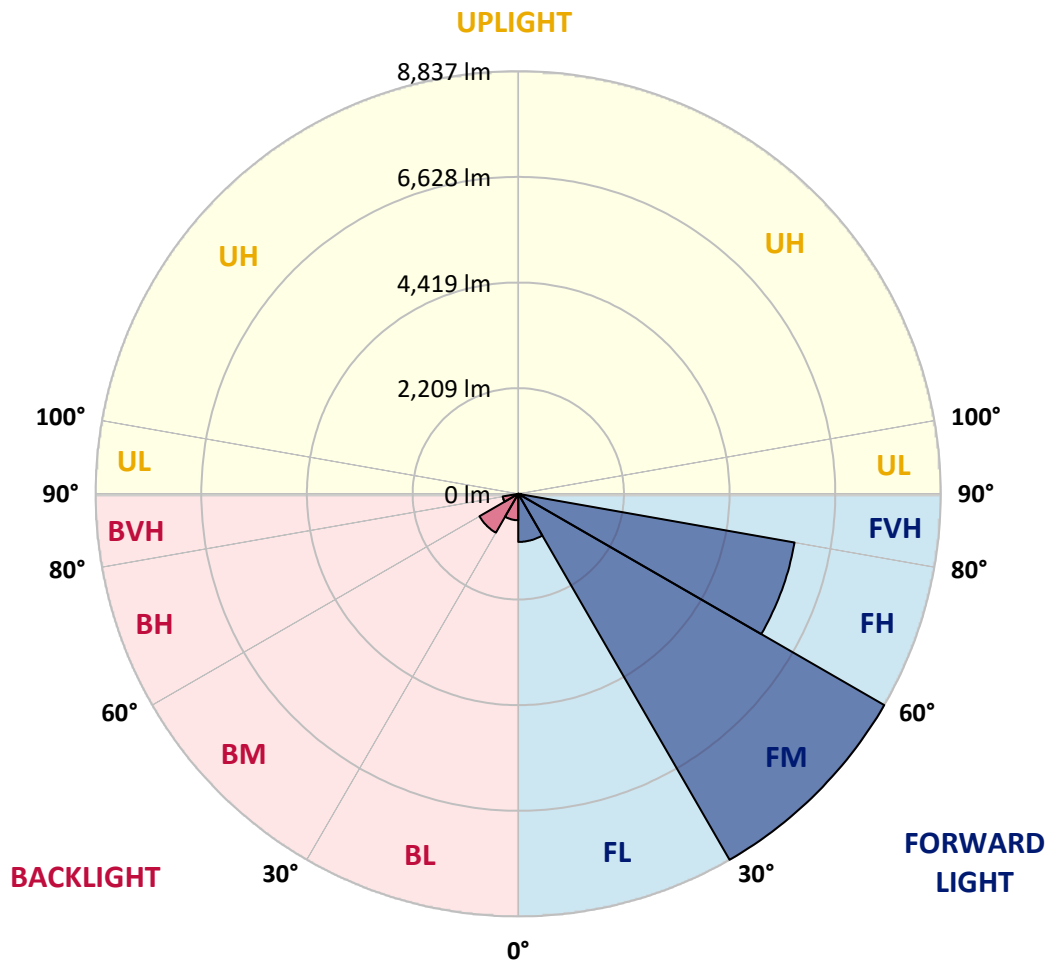
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1005.8	5.7			
FM (30°-60°)	8837.4	50.2			
FH (60°-80°)	5867.7	33.3			G3/7500
FVH (80°-90°)	61.9	0.4			G1/100
BL (0°-30°)	552.5	3.1	B2/1000		
BM (30°-60°)	937.0	5.3	B1/1000		
BH (60°-80°)	329.8	1.9	B1/500		G1/500
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1969.8	1969.8	1969.8	1969.8	1969.8	1969.8	1969.8	1969.8	1969.8	1969.8	1969.8
2.5°	1920.8	1927.4	1934.0	1936.7	1945.9	1955.2	1961.8	1960.5	1971.1	1976.4	1976.4
5°	1844.0	1844.0	1861.1	1877.0	1903.5	1930.0	1955.2	1960.5	1980.4	1998.9	2005.5
7.5°	1779.1	1783.0	1796.2	1825.4	1861.1	1907.6	1957.8	1969.8	2004.2	2045.3	2062.5
10°	1748.5	1751.2	1768.5	1798.9	1844.0	1907.6	1977.7	2000.2	2053.2	2118.1	2142.0
12.5°	1742.0	1745.9	1763.2	1797.6	1849.3	1926.1	2021.4	2045.3	2122.1	2205.6	2241.3
15°	1753.8	1756.5	1773.8	1810.8	1867.8	1959.2	2079.7	2112.8	2204.3	2301.0	2347.3
17.5°	1796.2	1793.6	1805.5	1836.0	1899.6	2000.2	2149.9	2189.7	2296.9	2429.4	2459.9
20°	1976.4	1959.2	1948.6	1922.1	1947.3	2058.5	2234.7	2293.0	2425.4	2560.6	2581.8
22.5°	2364.6	2326.1	2250.6	2147.3	2067.8	2138.0	2336.7	2404.3	2575.1	2707.6	2707.6
25°	2858.6	2809.6	2734.1	2509.0	2314.2	2269.2	2451.9	2536.7	2738.1	2871.8	2828.2
27.5°	3477.3	3438.8	3291.8	3029.5	2731.5	2498.4	2585.7	2663.9	2882.4	3044.1	2952.7
30°	3980.6	3962.1	3841.5	3607.0	3278.6	2938.1	2834.8	2886.5	3074.5	3261.3	3167.3
32.5°	4405.8	4405.8	4282.6	4064.0	3756.7	3454.7	3257.4	3294.4	3474.6	3690.6	3515.6
35°	4873.4	4857.5	4758.2	4550.2	4205.8	3939.6	3858.8	3909.1	4072.0	4232.3	3801.8
37.5°	5364.9	5359.6	5256.2	5054.9	4774.1	4439.0	4249.5	4262.8	4346.2	4444.3	4137.0
40°	5898.8	5906.7	5771.5	5647.1	5382.1	5039.0	4676.0	4592.6	4670.7	4947.6	4755.5
42.5°	6529.3	6510.8	6452.5	6282.9	6069.6	5864.3	5428.5	5398.0	5466.9	5763.6	5555.6
45°	7261.8	7288.3	7187.6	7093.6	6950.5	6779.6	6415.4	6362.3	6437.9	6898.9	6603.4
47.5°	7995.7	7970.5	8035.4	8018.2	8095.0	7967.9	7646.0	7537.4	7718.9	8155.9	7721.5
50°	8554.7	8582.5	8717.6	8915.0	9244.9	9316.3	9007.7	8970.6	9051.4	9332.2	8721.6
52.5°	8917.6	9010.4	9222.3	9729.7	10324.5	10786.8	10552.3	10532.4	10499.3	10574.8	9678.0
55°	9154.8	9248.8	9525.7	10272.8	11296.7	12047.8	12059.8	11975.0	11756.4	11702.1	10572.1
57.5°	9009.0	9027.6	9422.3	10421.2	11835.9	12947.3	13336.7	13252.0	12848.0	12642.6	11361.7
60°	8097.7	8136.1	8685.8	9859.5	11601.4	13241.4	14183.2	14144.8	13702.3	13470.5	11976.3
62.5°	6482.9	6594.2	7159.9	8468.6	10511.2	12745.9	14526.3	14634.9	14290.5	13971.3	12169.7
63°	6186.2	6150.4	6747.8	8063.3	10222.4	12500.9	14531.6	14669.4	14317.0	14019.0	12116.7
65°	4579.4	4686.6	5074.8	6358.4	8507.0	11360.3	14204.4	14448.1	14219.0	13808.3	11529.9
67.5°	2571.2	2565.9	2995.1	4160.8	5954.4	8911.1	12844.0	13359.3	13311.6	12391.0	9557.5
70°	1258.5	1278.3	1454.5	2156.6	3453.4	6147.8	10672.9	11229.2	11246.4	9732.3	6608.7
72.5°	569.6	578.9	704.8	1050.5	1775.0	3273.3	7354.5	7885.7	7787.7	6202.1	3649.4
75°	300.7	320.6	388.1	528.6	855.7	1349.8	4000.5	4514.5	4309.1	2833.5	1343.2
77.5°	222.5	229.2	263.6	336.5	458.3	525.9	1726.1	2053.2	1923.5	1025.3	445.1
80°	162.9	168.2	196.0	238.4	288.8	267.6	650.4	745.8	668.9	348.4	136.4
82.5°	99.3	100.7	143.1	177.5	181.5	149.7	214.6	230.5	241.1	196.0	74.2
85°	35.7	45.1	96.7	128.5	107.3	75.5	90.1	99.3	108.7	124.6	43.7
87.5°	4.0	5.3	46.3	62.2	30.4	27.8	33.1	37.1	39.8	46.3	21.2
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°	1969.8	1969.8	1969.8	1969.8	1969.8	1969.8	1969.8	1969.8	1969.8	1969.8	1969.8
2.5°	1981.7	1987.0	1983.0	1976.4	1975.1	1971.1	1963.1	1963.1	1963.1	1965.8	1963.1
5°	2010.8	2014.8	2005.5	1992.3	1977.7	1959.2	1939.3	1927.4	1926.1	1923.5	1916.8
7.5°	2066.5	2071.8	2050.6	2018.8	1979.0	1934.0	1891.7	1851.9	1833.4	1818.7	1818.7
10°	2147.3	2152.6	2110.2	2053.2	1973.7	1882.3	1781.7	1690.2	1618.8	1585.6	1577.7
12.5°	2244.0	2246.6	2176.4	2077.1	1945.9	1769.7	1555.2	1355.1	1216.0	1152.4	1145.9
15°	2349.9	2331.4	2238.7	2086.4	1866.4	1537.9	1167.1	922.0	777.6	735.2	751.1
17.5°	2457.2	2422.8	2286.3	2071.8	1687.6	1167.1	784.2	629.2	584.2	572.2	572.2
20°	2557.9	2510.2	2320.8	2008.2	1377.6	804.1	581.6	544.5	536.5	528.6	529.8
22.5°	2658.6	2585.7	2351.3	1866.4	1026.6	574.9	520.6	508.6	498.0	487.4	486.2
25°	2756.6	2656.0	2363.2	1604.2	699.5	494.1	475.6	459.7	438.5	426.6	423.9
27.5°	2858.6	2740.7	2355.2	1273.0	510.0	442.5	423.9	401.4	376.2	355.0	355.0
30°	3054.7	2902.4	2327.5	915.3	429.2	389.5	365.6	329.8	302.0	280.8	279.5
32.5°	3322.3	3113.0	2232.1	643.8	381.5	343.1	307.3	267.6	238.4	222.5	222.5
35°	3560.7	3324.9	2053.2	474.2	343.1	298.1	254.3	215.9	193.4	182.8	178.8
37.5°	3923.7	3634.9	1806.8	385.5	306.0	258.3	213.3	177.5	158.9	151.0	151.0
40°	4468.1	4013.8	1504.8	337.8	270.2	219.9	177.5	149.7	135.1	125.8	125.8
42.5°	5143.6	4477.4	1198.8	303.3	237.1	189.4	148.4	127.2	114.0	107.3	106.0
45°	5994.1	4966.2	923.3	271.6	210.6	161.6	125.8	107.3	94.0	90.1	91.4
47.5°	6881.7	5396.7	715.4	243.7	182.8	136.4	107.3	92.8	83.4	78.1	78.1
50°	7639.4	5693.4	543.1	211.9	161.6	115.2	94.0	83.4	75.5	72.8	71.6
52.5°	8272.6	5779.5	416.0	184.1	141.7	99.3	83.4	75.5	68.9	64.9	64.9
55°	8811.7	5704.0	325.9	155.0	119.3	86.1	74.2	67.5	59.6	55.7	54.3
57.5°	9127.0	5461.6	249.0	128.5	96.7	71.6	64.9	56.9	47.7	41.0	41.0
60°	9285.9	5109.2	190.7	106.0	74.2	56.9	53.0	42.4	33.1	27.8	26.5
62.5°	9095.2	4641.6	144.4	83.4	55.7	42.4	35.7	30.4	21.2	15.9	15.9
63°	8977.3	4506.5	139.1	79.5	51.6	39.8	33.1	27.8	18.6	14.5	13.3
65°	8183.8	3917.0	114.0	63.6	41.0	27.8	22.5	19.8	13.3	6.6	5.3
67.5°	6498.8	2996.4	90.1	47.7	29.2	19.8	13.3	11.9	4.0	0.0	0.0
70°	4393.9	1935.3	70.2	34.5	19.8	11.9	6.6	5.3	1.3	0.0	0.0
72.5°	2291.6	992.2	54.3	25.1	11.9	8.0	4.0	1.3	0.0	0.0	0.0
75°	810.7	337.8	39.8	15.9	8.0	4.0	1.3	0.0	0.0	0.0	0.0
77.5°	245.1	125.8	25.1	11.9	5.3	2.7	0.0	0.0	0.0	0.0	0.0
80°	86.1	46.3	14.5	8.0	4.0	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	42.4	22.5	9.3	6.6	4.0	1.3	0.0	0.0	0.0	0.0	0.0
85°	23.9	14.5	8.0	6.6	4.0	2.7	0.0	0.0	0.0	0.0	0.0
87.5°	17.2	10.6	8.0	6.6	5.3	2.7	1.3	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)