

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: P650873

Luminaire Tested: **GALN-SA4C-840-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650873
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-SA4C-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1050mA 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: 17172.4 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

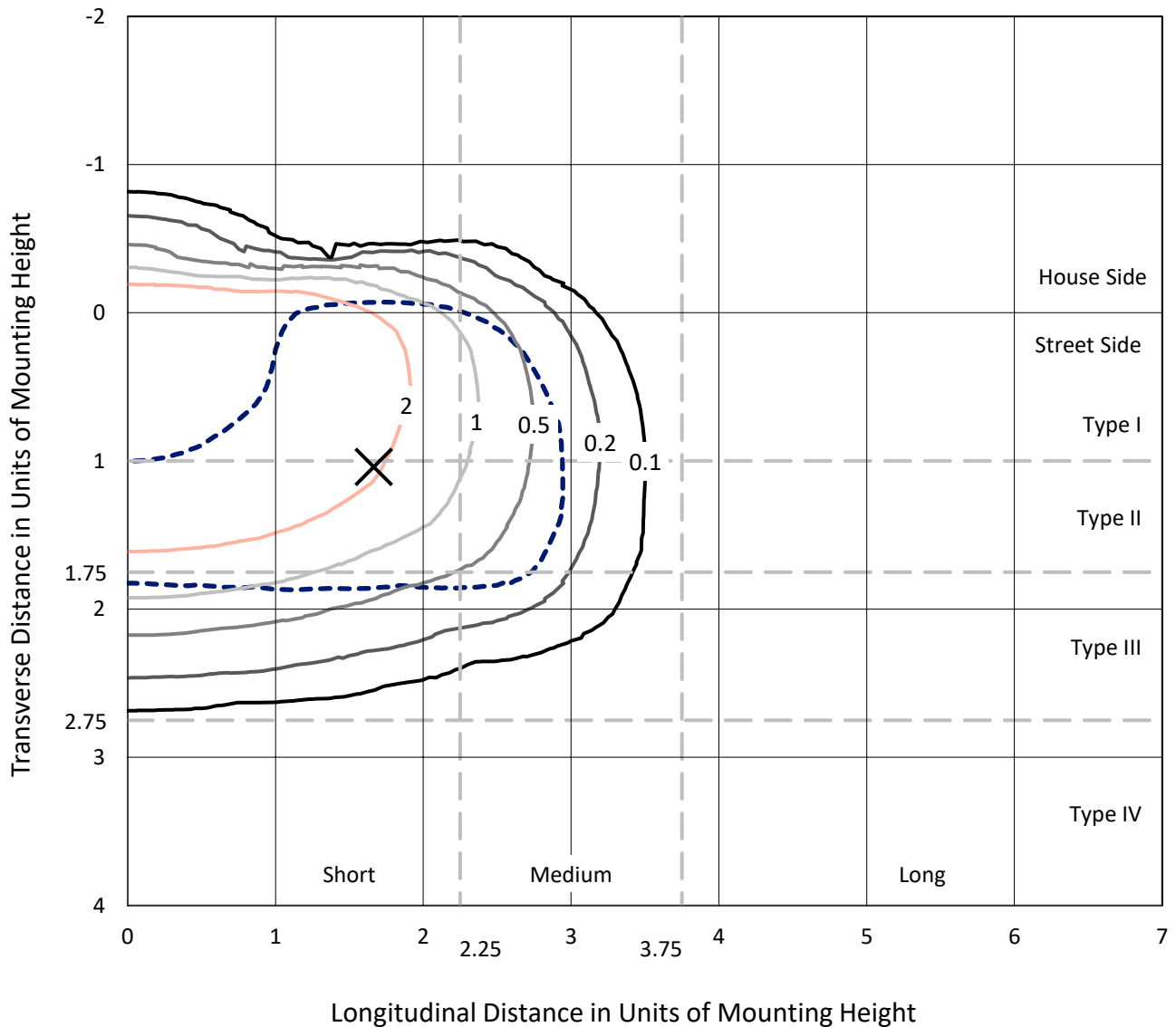
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

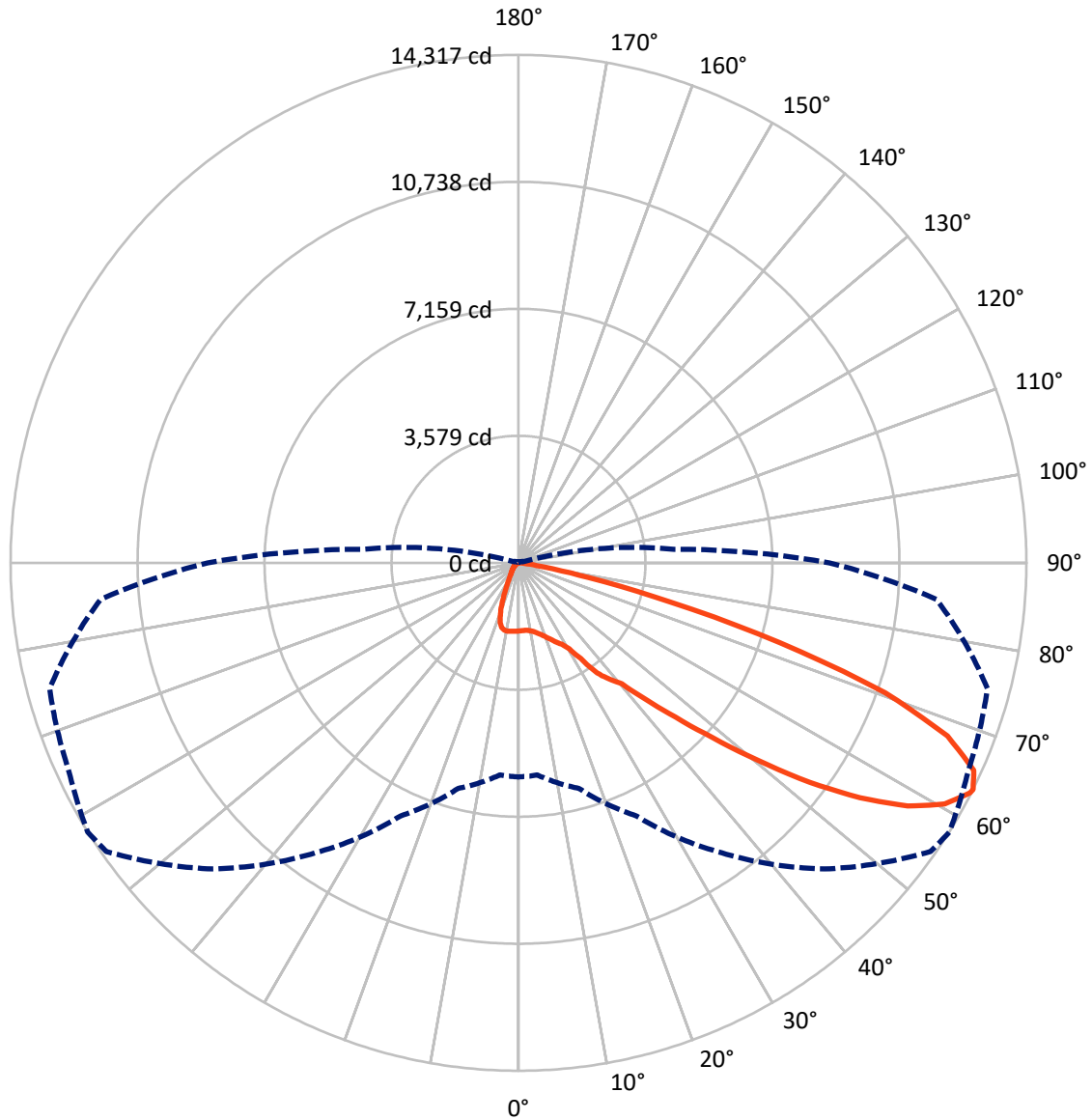
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	1778.1	0.0	1778.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	15394.3	0.0	15394.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	17172.4	0.0	17172.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.0	1.0
10°-20°	490.2	2.9
20°-30°	850.7	5.0
30°-40°	1563.3	9.1
40°-50°	2942.9	17.1
50°-60°	5033.6	29.3
60°-70°	4819.7	28.1
70°-80°	1229.0	7.2
80°-90°	62.8	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°	17172.4	100.0
0°-180°	17172.4	100.0

Coefficient of Utilization



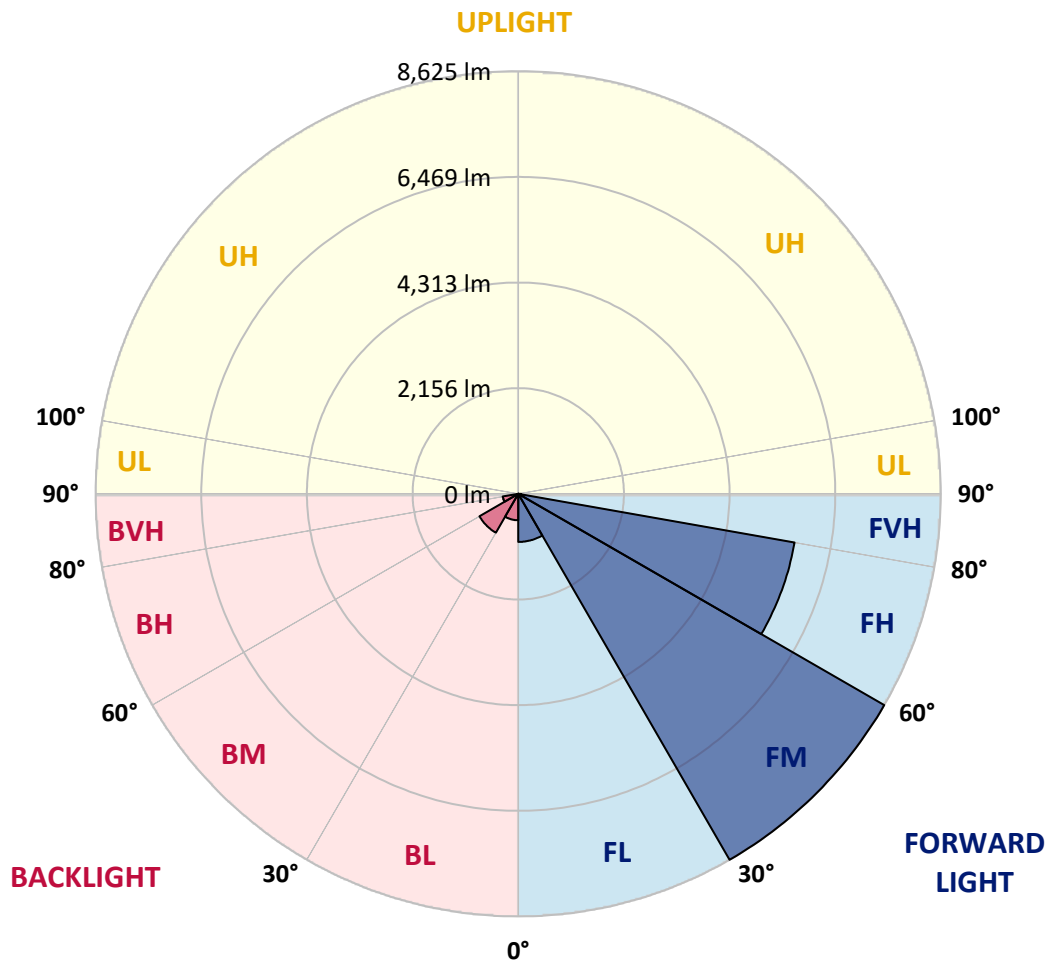
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	981.6	5.7			
FM (30°-60°)	8625.3	50.2			
FH (60°-80°)	5726.9	33.3			G3/7500
FVH (80°-90°)	60.4	0.4			G1/100
BL (0°-30°)	539.2	3.1	B2/1000		
BM (30°-60°)	914.5	5.3	B1/1000		
BH (60°-80°)	321.9	1.9	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1922.5	1922.5	1922.5	1922.5	1922.5	1922.5	1922.5	1922.5	1922.5	1922.5	1922.5
2.5°	1874.7	1881.1	1887.6	1890.2	1899.2	1908.3	1914.8	1913.4	1923.8	1929.0	1929.0
5°	1799.7	1799.7	1816.5	1832.0	1857.9	1883.8	1908.3	1913.4	1932.9	1951.0	1957.4
7.5°	1736.3	1740.2	1753.1	1781.6	1816.5	1861.7	1910.9	1922.5	1956.2	1996.2	2013.0
10°	1706.6	1709.2	1726.0	1755.8	1799.7	1861.7	1930.3	1952.2	2003.9	2067.3	2090.6
12.5°	1700.2	1704.0	1720.9	1754.4	1804.9	1879.9	1972.9	1996.2	2071.2	2152.6	2187.5
15°	1711.8	1714.4	1731.2	1767.4	1823.0	1912.2	2029.8	2062.1	2151.4	2245.7	2291.0
17.5°	1753.1	1750.5	1762.2	1791.9	1854.0	1952.2	2098.4	2137.1	2241.9	2371.1	2400.9
20°	1929.0	1912.2	1901.8	1875.9	1900.6	2009.1	2181.0	2238.0	2367.2	2499.1	2519.8
22.5°	2307.8	2270.3	2196.6	2095.8	2018.1	2086.7	2280.6	2346.6	2513.3	2642.7	2642.7
25°	2790.0	2742.2	2668.5	2448.7	2258.7	2214.7	2393.1	2475.9	2672.4	2803.0	2760.3
27.5°	3393.8	3356.3	3212.8	2956.8	2665.9	2438.4	2523.7	2600.0	2813.3	2971.0	2881.9
30°	3885.1	3867.0	3749.3	3520.5	3199.9	2867.6	2766.8	2817.2	3000.8	3183.1	3091.3
32.5°	4300.1	4300.1	4179.9	3966.6	3666.6	3371.8	3179.2	3215.4	3391.2	3602.0	3431.3
35°	4756.5	4741.0	4644.0	4441.1	4104.9	3845.1	3766.2	3815.3	3974.3	4130.7	3710.6
37.5°	5236.2	5231.0	5130.2	4933.6	4659.6	4332.4	4147.6	4160.5	4241.9	4337.6	4037.6
40°	5757.2	5765.0	5633.1	5511.6	5253.0	4918.1	4563.9	4482.4	4558.7	4828.9	4641.5
42.5°	6372.6	6354.5	6297.7	6132.2	5924.0	5723.6	5298.2	5268.5	5335.7	5625.4	5422.3
45°	7087.6	7113.4	7015.2	6923.4	6783.8	6617.0	6261.4	6209.7	6283.4	6733.3	6445.0
47.5°	7803.8	7779.2	7842.6	7825.8	7900.8	7776.6	7462.5	7356.5	7533.6	7960.2	7536.2
50°	8349.4	8376.6	8508.5	8701.1	9023.0	9092.8	8791.6	8755.4	8834.3	9108.4	8512.3
52.5°	8703.7	8794.2	9001.1	9496.2	10076.7	10527.9	10299.1	10279.7	10247.4	10321.1	9445.8
55°	8935.1	9026.9	9297.1	10026.3	11025.7	11758.8	11770.4	11687.6	11474.4	11421.3	10318.5
57.5°	8792.9	8811.0	9196.3	10171.1	11551.9	12636.6	13016.7	12934.0	12539.6	12339.2	11089.0
60°	7903.4	7940.9	8477.4	9622.9	11323.1	12923.6	13842.9	13805.4	13373.6	13147.3	11689.0
62.5°	6327.3	6435.9	6988.0	8265.3	10259.0	12440.1	14177.7	14283.7	13947.6	13636.1	11877.7
63°	6037.8	6002.8	6586.0	7869.7	9977.2	12200.9	14182.9	14317.4	13973.5	13682.6	11826.0
65°	4469.5	4574.2	4953.1	6205.8	8302.9	11087.7	13863.5	14101.5	13877.8	13477.0	11253.3
67.5°	2509.5	2504.3	2923.2	4060.9	5811.5	8697.2	12535.8	13038.7	12992.2	12093.6	9328.1
70°	1228.2	1247.6	1419.6	2104.8	3370.6	6000.3	10416.7	10959.7	10976.6	9498.8	6450.2
72.5°	555.9	565.0	687.9	1025.3	1732.5	3194.7	7178.1	7696.5	7600.9	6053.3	3561.9
75°	293.5	312.9	378.8	515.9	835.2	1317.4	3904.5	4406.2	4205.8	2765.5	1311.0
77.5°	217.2	223.7	257.3	328.4	447.3	513.3	1684.6	2003.9	1877.3	1000.7	434.4
80°	159.0	164.2	191.3	232.7	281.8	261.1	634.8	727.9	652.9	340.0	133.1
82.5°	97.0	98.2	139.6	173.2	177.1	146.1	209.4	225.0	235.3	191.3	72.4
85°	34.9	44.0	94.4	125.4	104.7	73.7	87.9	97.0	106.1	121.5	42.6
87.5°	3.9	5.1	45.2	60.8	29.8	27.2	32.3	36.2	38.8	45.2	20.7
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°	1922.5	1922.5	1922.5	1922.5	1922.5	1922.5	1922.5	1922.5	1922.5	1922.5	1922.5
2.5°	1934.1	1939.3	1935.5	1929.0	1927.7	1923.8	1916.1	1916.1	1916.1	1918.7	1916.1
5°	1962.6	1966.5	1957.4	1944.5	1930.3	1912.2	1892.8	1881.1	1879.9	1877.3	1870.8
7.5°	2016.9	2022.1	2001.4	1970.4	1931.5	1887.6	1846.2	1807.5	1789.3	1775.1	1775.1
10°	2095.8	2100.9	2059.5	2003.9	1926.4	1837.2	1738.9	1649.7	1579.9	1547.6	1539.8
12.5°	2190.1	2192.7	2124.2	2027.2	1899.2	1727.3	1517.8	1322.6	1186.9	1124.8	1118.4
15°	2293.6	2275.5	2185.0	2036.3	1821.7	1501.0	1139.1	899.9	758.9	717.5	733.1
17.5°	2398.3	2364.6	2231.5	2022.1	1647.1	1139.1	765.4	614.1	570.2	558.5	558.5
20°	2496.6	2450.0	2265.1	1960.0	1344.6	784.7	567.6	531.3	523.6	515.9	517.1
22.5°	2594.8	2523.7	2294.8	1821.7	1002.0	561.1	508.1	496.4	486.1	475.8	474.5
25°	2690.5	2592.2	2306.5	1565.7	682.6	482.2	464.1	448.6	428.0	416.3	413.7
27.5°	2790.0	2675.0	2298.7	1242.5	497.8	431.9	413.7	391.7	367.2	346.5	346.5
30°	2981.3	2832.7	2271.6	893.4	418.9	380.1	356.8	321.9	294.8	274.1	272.8
32.5°	3242.6	3038.3	2178.5	628.3	372.3	334.9	300.0	261.1	232.7	217.2	217.2
35°	3475.3	3245.2	2003.9	462.9	334.9	290.9	248.3	210.8	188.7	178.4	174.5
37.5°	3829.5	3547.7	1763.5	376.3	298.6	252.1	208.1	173.2	155.2	147.4	147.4
40°	4360.9	3917.5	1468.7	329.7	263.7	214.6	173.2	146.1	131.9	122.8	122.8
42.5°	5020.3	4369.9	1170.1	296.0	231.4	184.9	144.8	124.1	111.2	104.7	103.4
45°	5850.2	4847.0	901.1	265.0	205.5	157.8	122.8	104.7	91.8	87.9	89.2
47.5°	6716.5	5267.2	698.1	237.9	178.4	133.1	104.7	90.5	81.5	76.3	76.3
50°	7456.1	5556.8	530.1	206.9	157.8	112.4	91.8	81.5	73.7	71.1	69.8
52.5°	8074.0	5640.8	406.0	179.7	138.3	97.0	81.5	73.7	67.2	63.3	63.3
55°	8600.2	5567.2	318.1	151.3	116.4	84.0	72.4	65.9	58.2	54.3	53.0
57.5°	8908.0	5330.5	243.0	125.4	94.4	69.8	63.3	55.6	46.5	40.1	40.1
60°	9063.1	4986.6	186.2	103.4	72.4	55.6	51.7	41.4	32.3	27.2	25.8
62.5°	8876.9	4530.2	141.0	81.5	54.3	41.4	34.9	29.8	20.7	15.5	15.5
63°	8761.9	4398.3	135.7	77.5	50.5	38.8	32.3	27.2	18.1	14.2	13.0
65°	7987.4	3823.0	111.2	62.1	40.1	27.2	22.0	19.4	13.0	6.5	5.1
67.5°	6342.9	2924.5	87.9	46.5	28.4	19.4	13.0	11.6	3.9	0.0	0.0
70°	4288.5	1888.9	68.5	33.6	19.4	11.6	6.5	5.1	1.3	0.0	0.0
72.5°	2236.7	968.3	53.0	24.6	11.6	7.7	3.9	1.3	0.0	0.0	0.0
75°	791.2	329.7	38.8	15.5	7.7	3.9	1.3	0.0	0.0	0.0	0.0
77.5°	239.2	122.8	24.6	11.6	5.1	2.6	0.0	0.0	0.0	0.0	0.0
80°	84.0	45.2	14.2	7.7	3.9	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	41.4	22.0	9.1	6.5	3.9	1.3	0.0	0.0	0.0	0.0	0.0
85°	23.3	14.2	7.7	6.5	3.9	2.6	0.0	0.0	0.0	0.0	0.0
87.5°	16.8	10.3	7.7	6.5	5.1	2.6	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)