

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: P453285

Luminaire Tested: **GALN-SA4B-740-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453285
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-SA4B-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 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: 16526 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

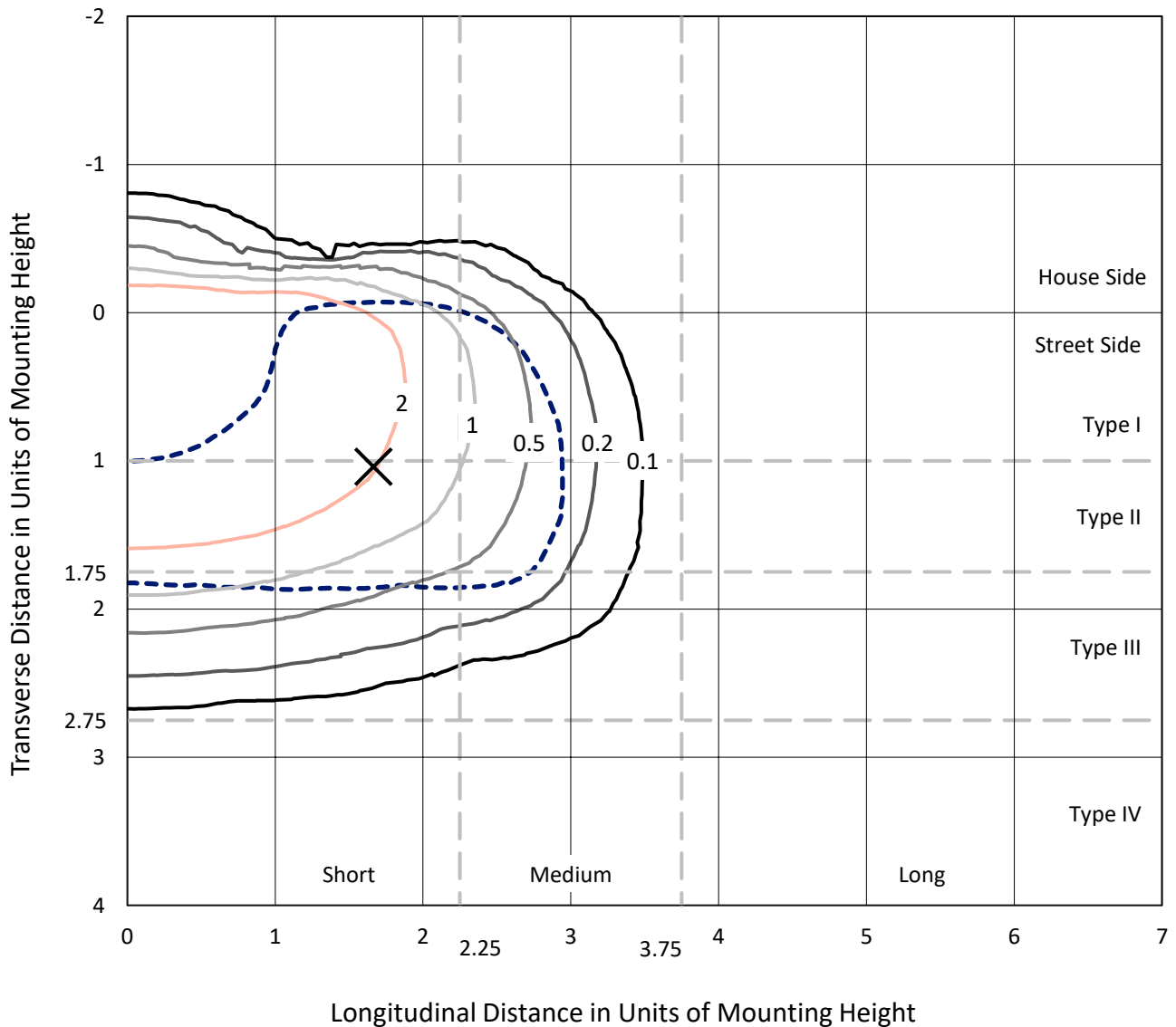
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

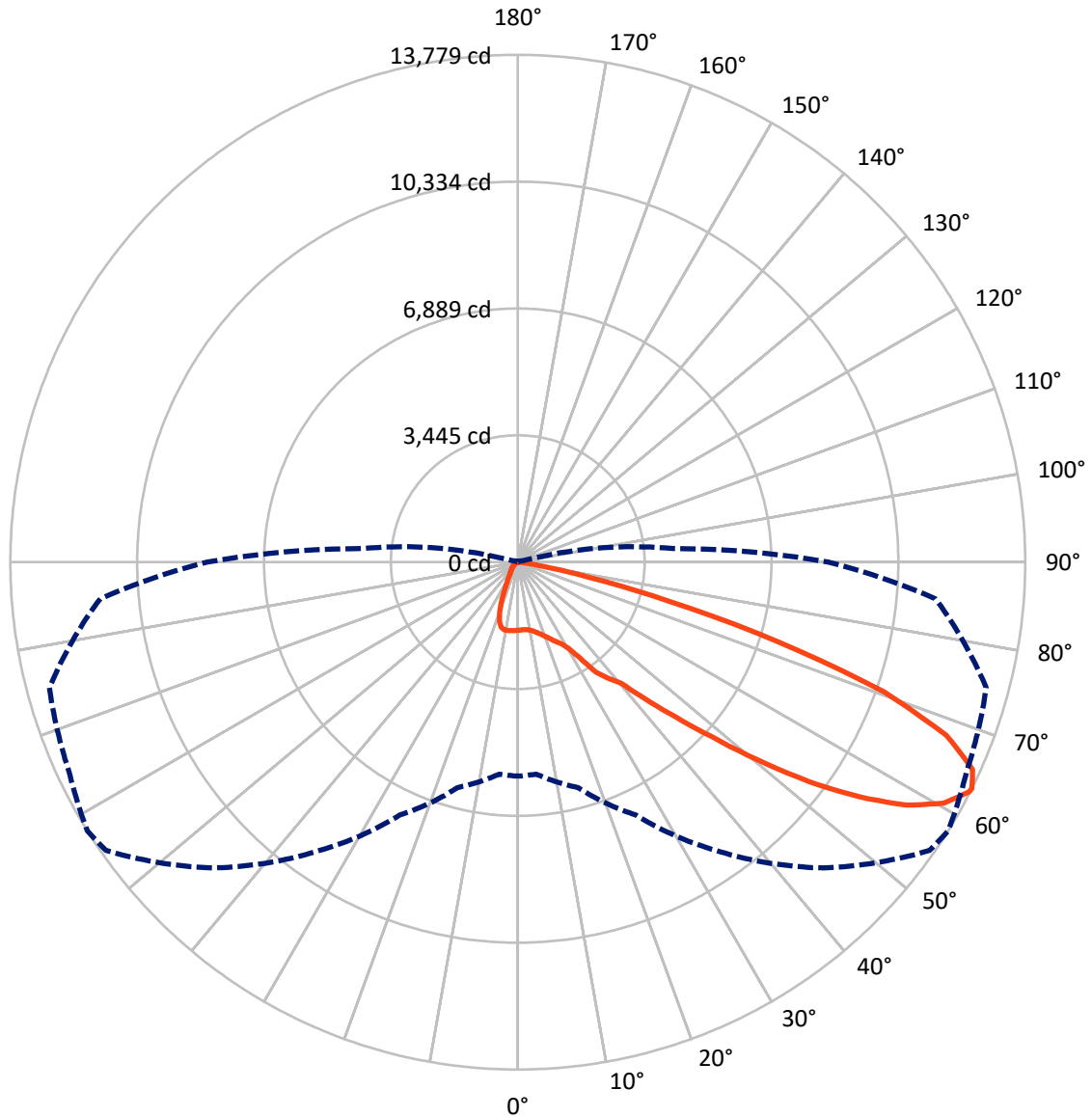
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	1711.2	0.0	1711.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	14814.8	0.0	14814.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	16526.0	0.0	16526.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.2	1.0
10°-20°	471.7	2.9
20°-30°	818.7	5.0
30°-40°	1504.5	9.1
40°-50°	2832.1	17.1
50°-60°	4844.2	29.3
60°-70°	4638.3	28.1
70°-80°	1182.8	7.2
80°-90°	60.5	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°	16526.0	100.0
0°-180°	16526.0	100.0

Coefficient of Utilization



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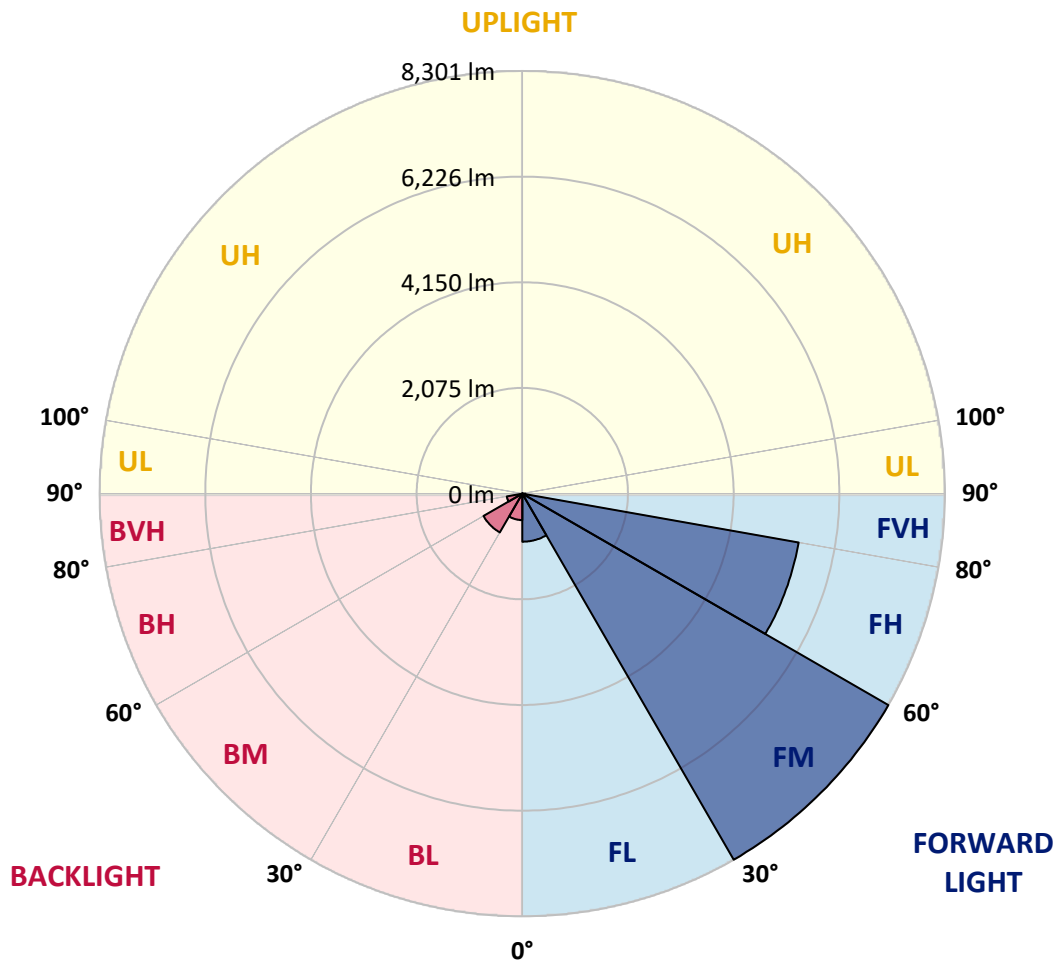
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	944.7	5.7			
FM	(30°-60°)	8300.7	50.2			
FH	(60°-80°)	5511.3	33.3			G3/7500
FVH	(80°-90°)	58.1	0.4			G1/100
BL	(0°-30°)	518.9	3.1	B2/1000		
BM	(30°-60°)	880.1	5.3	B1/1000		
BH	(60°-80°)	309.7	1.9	B1/500		G1/500
BVH	(80°-90°)	2.3	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°	1850.1	1850.1	1850.1	1850.1	1850.1	1850.1	1850.1	1850.1	1850.1	1850.1	1850.1
2.5°	1804.1	1810.3	1816.6	1819.0	1827.8	1836.5	1842.7	1841.4	1851.4	1856.4	1856.4
5°	1731.9	1731.9	1748.1	1763.1	1787.9	1812.8	1836.5	1841.4	1860.1	1877.5	1883.7
7.5°	1671.0	1674.7	1687.2	1714.5	1748.1	1791.7	1839.0	1850.1	1882.5	1921.1	1937.2
10°	1642.4	1644.9	1661.0	1689.6	1731.9	1791.7	1857.6	1878.8	1928.5	1989.5	2011.9
12.5°	1636.1	1639.9	1656.1	1688.4	1736.9	1809.1	1898.7	1921.1	1993.2	2071.6	2105.2
15°	1647.3	1649.8	1666.0	1700.8	1754.3	1840.2	1953.4	1984.5	2070.4	2161.2	2204.8
17.5°	1687.2	1684.7	1695.9	1724.5	1784.2	1878.8	2019.4	2056.7	2157.5	2281.9	2310.5
20°	1856.4	1840.2	1830.2	1805.4	1829.0	1933.5	2099.0	2153.7	2278.2	2405.1	2425.0
22.5°	2220.9	2184.8	2113.9	2016.9	1942.2	2008.2	2194.8	2258.3	2418.8	2543.2	2543.2
25°	2685.0	2639.0	2568.1	2356.5	2173.6	2131.3	2303.0	2382.7	2571.8	2697.5	2656.4
27.5°	3266.1	3230.0	3091.9	2845.5	2565.6	2346.6	2428.7	2502.1	2707.4	2859.2	2773.4
30°	3738.9	3721.5	3608.2	3388.0	3079.4	2759.7	2662.6	2711.1	2887.8	3063.3	2974.9
32.5°	4138.3	4138.3	4022.6	3817.3	3528.6	3244.9	3059.5	3094.4	3263.6	3466.4	3302.2
35°	4577.5	4562.5	4469.2	4273.9	3950.4	3700.3	3624.4	3671.7	3824.7	3975.3	3570.9
37.5°	5039.1	5034.1	4937.1	4747.9	4484.2	4169.4	3991.4	4003.9	4082.3	4174.3	3885.7
40°	5540.5	5548.0	5421.1	5304.1	5055.3	4733.0	4392.1	4313.7	4387.1	4647.1	4466.7
42.5°	6132.7	6115.3	6060.6	5901.3	5701.0	5508.1	5098.8	5070.2	5134.9	5413.6	5218.2
45°	6820.8	6845.7	6751.1	6662.8	6528.4	6367.9	6025.7	5976.0	6046.9	6479.9	6202.4
47.5°	7510.1	7486.4	7547.4	7531.2	7603.4	7484.0	7181.6	7079.6	7250.0	7660.6	7252.5
50°	8035.1	8061.3	8188.2	8373.6	8683.4	8750.6	8460.7	8425.8	8501.7	8765.5	8191.9
52.5°	8376.1	8463.2	8662.2	9138.8	9697.4	10131.7	9911.4	9892.8	9861.7	9932.6	9090.2
55°	8598.8	8687.1	8947.2	9648.9	10610.7	11316.1	11327.3	11247.7	11042.4	10991.4	9930.1
57.5°	8461.9	8479.3	8850.1	9788.2	11117.1	12161.0	12526.8	12447.1	12067.7	11874.8	10671.6
60°	7605.9	7642.0	8158.3	9260.7	10896.8	12437.2	13321.8	13285.7	12870.2	12652.4	11249.0
62.5°	6089.2	6193.7	6725.0	7954.3	9872.9	11971.8	13644.1	13746.1	13422.6	13122.7	11430.6
63°	5810.5	5776.9	6338.0	7573.5	9601.6	11741.7	13649.1	13778.5	13447.5	13167.5	11380.8
65°	4301.3	4402.0	4766.6	5972.2	7990.4	10670.4	13341.7	13570.7	13355.4	12969.7	10829.7
67.5°	2415.0	2410.0	2813.2	3908.1	5592.8	8369.8	12063.9	12547.9	12503.1	11638.4	8977.0
70°	1182.0	1200.7	1366.1	2025.6	3243.7	5774.4	10024.7	10547.2	10563.4	9141.3	6207.4
72.5°	535.0	543.7	661.9	986.7	1667.2	3074.5	6907.9	7406.8	7314.7	5825.4	3427.8
75°	282.4	301.1	364.6	496.4	803.8	1267.9	3757.5	4240.3	4047.4	2661.4	1261.6
77.5°	209.0	215.2	247.6	316.0	430.5	494.0	1621.2	1928.5	1806.6	963.0	418.1
80°	153.0	158.0	184.1	224.0	271.2	251.3	610.9	700.5	628.3	327.2	128.2
82.5°	93.3	94.6	134.4	166.7	170.5	140.6	201.6	216.5	226.4	184.1	69.7
85°	33.6	42.3	90.8	120.7	100.8	70.9	84.6	93.3	102.0	117.0	41.1
87.5°	3.7	5.0	43.5	58.5	28.6	26.1	31.1	34.8	37.3	43.5	19.9
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°	1850.1	1850.1	1850.1	1850.1	1850.1	1850.1	1850.1	1850.1	1850.1	1850.1	1850.1
2.5°	1861.3	1866.3	1862.6	1856.4	1855.1	1851.4	1843.9	1843.9	1843.9	1846.4	1843.9
5°	1888.7	1892.5	1883.7	1871.3	1857.6	1840.2	1821.5	1810.3	1809.1	1806.6	1800.4
7.5°	1941.0	1946.0	1926.0	1896.2	1858.9	1816.6	1776.7	1739.4	1722.0	1708.3	1708.3
10°	2016.9	2021.9	1982.0	1928.5	1853.9	1768.0	1673.5	1587.6	1520.4	1489.3	1481.9
12.5°	2107.7	2110.2	2044.2	1950.9	1827.8	1662.3	1460.7	1272.8	1142.2	1082.5	1076.2
15°	2207.2	2189.8	2102.7	1959.6	1753.1	1444.5	1096.2	866.0	730.4	690.5	705.5
17.5°	2308.0	2275.7	2147.5	1946.0	1585.1	1096.2	736.6	591.0	548.7	537.5	537.5
20°	2402.6	2357.8	2179.9	1886.2	1294.0	755.2	546.2	511.4	503.9	496.4	497.7
22.5°	2497.1	2428.7	2208.5	1753.1	964.3	540.0	489.0	477.8	467.8	457.9	456.6
25°	2589.2	2494.7	2219.7	1506.7	656.9	464.1	446.7	431.7	411.8	400.6	398.1
27.5°	2685.0	2574.3	2212.2	1195.7	479.0	415.6	398.1	377.0	353.4	333.4	333.4
30°	2869.2	2726.1	2186.1	859.8	403.1	365.8	343.4	309.8	283.7	263.8	262.5
32.5°	3120.5	2923.9	2096.5	604.7	358.3	322.3	288.7	251.3	224.0	209.0	209.0
35°	3344.5	3123.0	1928.5	445.4	322.3	279.9	238.9	202.8	181.7	171.7	168.0
37.5°	3685.4	3414.1	1697.1	362.1	287.4	242.6	200.3	166.7	149.3	141.8	141.8
40°	4196.7	3770.0	1413.4	317.3	253.8	206.5	166.7	140.6	126.9	118.2	118.2
42.5°	4831.3	4205.5	1126.0	284.9	222.7	177.9	139.4	119.4	107.0	100.8	99.5
45°	5630.1	4664.6	867.2	255.1	197.8	151.8	118.2	100.8	88.3	84.6	85.9
47.5°	6463.7	5068.9	671.9	228.9	171.7	128.2	100.8	87.1	78.4	73.4	73.4
50°	7175.4	5347.6	510.1	199.1	151.8	108.2	88.3	78.4	70.9	68.4	67.2
52.5°	7770.1	5428.5	390.7	172.9	133.1	93.3	78.4	70.9	64.7	61.0	61.0
55°	8276.5	5357.6	306.1	145.6	112.0	80.9	69.7	63.5	56.0	52.3	51.0
57.5°	8572.7	5129.9	233.9	120.7	90.8	67.2	61.0	53.5	44.8	38.6	38.6
60°	8722.0	4798.9	179.2	99.5	69.7	53.5	49.8	39.8	31.1	26.1	24.9
62.5°	8542.8	4359.7	135.6	78.4	52.3	39.8	33.6	28.6	19.9	14.9	14.9
63°	8432.1	4232.8	130.6	74.7	48.5	37.3	31.1	26.1	17.4	13.7	12.4
65°	7686.8	3679.1	107.0	59.7	38.6	26.1	21.2	18.7	12.4	6.2	5.0
67.5°	6104.1	2814.4	84.6	44.8	27.4	18.7	12.4	11.2	3.7	0.0	0.0
70°	4127.1	1817.8	65.9	32.3	18.7	11.2	6.2	5.0	1.2	0.0	0.0
72.5°	2152.5	931.9	51.0	23.6	11.2	7.5	3.7	1.2	0.0	0.0	0.0
75°	761.5	317.3	37.3	14.9	7.5	3.7	1.2	0.0	0.0	0.0	0.0
77.5°	230.2	118.2	23.6	11.2	5.0	2.5	0.0	0.0	0.0	0.0	0.0
80°	80.9	43.5	13.7	7.5	3.7	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	39.8	21.2	8.7	6.2	3.7	1.2	0.0	0.0	0.0	0.0	0.0
85°	22.4	13.7	7.5	6.2	3.7	2.5	0.0	0.0	0.0	0.0	0.0
87.5°	16.2	10.0	7.5	6.2	5.0	2.5	1.2	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)