

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: P453633

Luminaire Tested: **GALN-SA4C-830-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453633  
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-830-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 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: 16226 lumens  
Efficiency: N/A  
Efficacy: 76.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

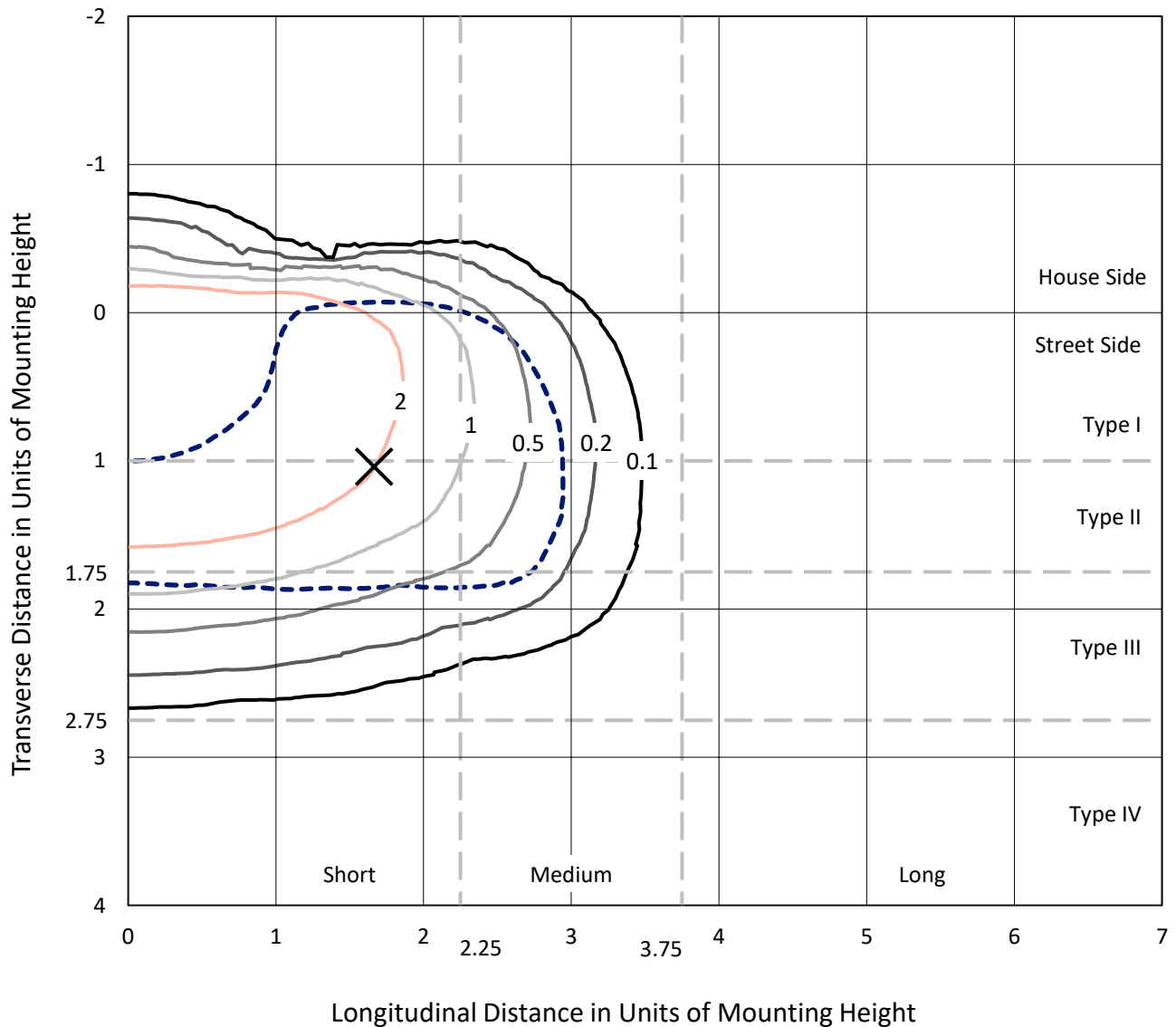
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P453633  
 CATALOG NUMBER: GALN-SA4C-830-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

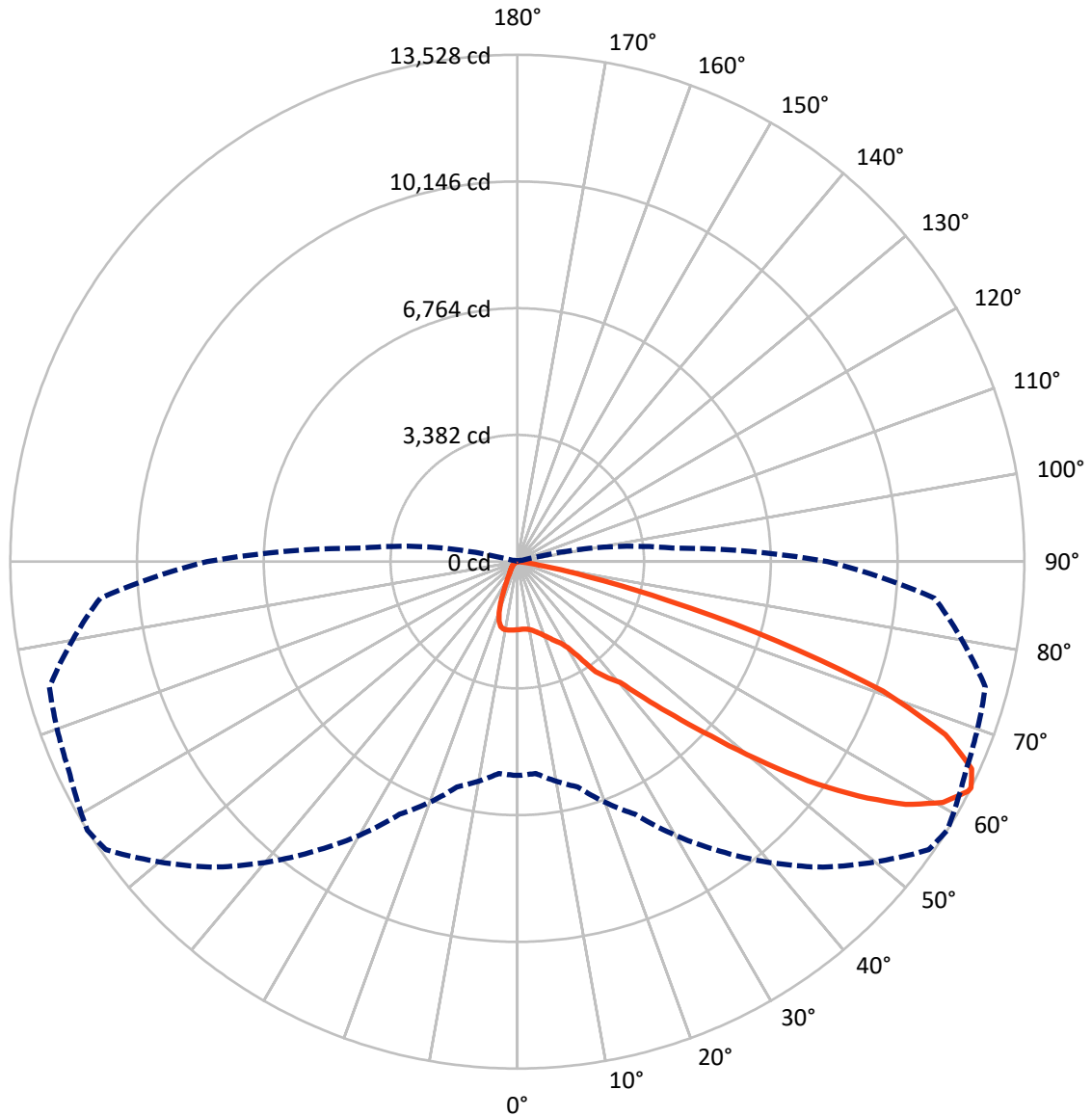
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type III - Short - N/A

REPORT NUMBER: P453633  
CATALOG NUMBER: GALN-SA4C-830-U-T3-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P453633

CATALOG NUMBER: GALN-SA4C-830-U-T3-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1680.1	0.0	1680.1
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	14545.9	0.0	14545.9
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	16226.0	0.0	16226.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.1	1.0
10°-20°	463.2	2.9
20°-30°	803.9	5.0
30°-40°	1477.2	9.1
40°-50°	2780.7	17.1
50°-60°	4756.2	29.3
60°-70°	4554.1	28.1
70°-80°	1161.3	7.2
80°-90°	59.4	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°	16226.0	100.0
0°-180°	16226.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P453633

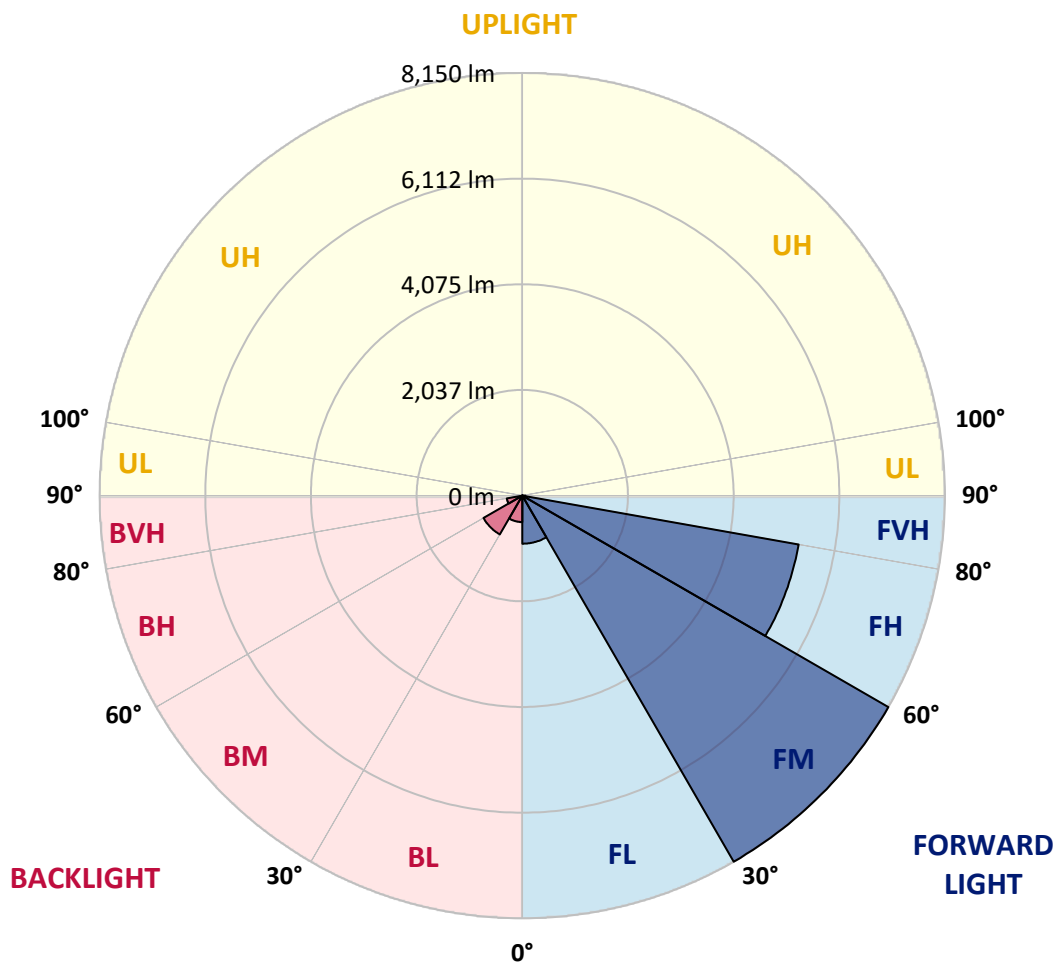
CATALOG NUMBER: GALN-SA4C-830-U-T3-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	927.5	5.7			
FM	(30°-60°)	8150.0	50.2			
FH	(60°-80°)	5411.3	33.3			G3/7500
FVH	(80°-90°)	57.1	0.4			G1/100
BL	(0°-30°)	509.5	3.1	B2/1000		
BM	(30°-60°)	864.2	5.3	B1/1000		
BH	(60°-80°)	304.1	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





REPORT NUMBER: P453633

CATALOG NUMBER: GALN-SA4C-830-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6
2.5°	1771.4	1777.5	1783.6	1786.0	1794.6	1803.1	1809.2	1808.0	1817.8	1822.7	1822.7
5°	1700.5	1700.5	1716.4	1731.0	1755.5	1779.9	1803.1	1808.0	1826.3	1843.4	1849.5
7.5°	1640.6	1644.3	1656.5	1683.4	1716.4	1759.1	1805.6	1816.6	1848.3	1886.2	1902.1
10°	1612.6	1615.0	1630.9	1659.0	1700.5	1759.1	1823.9	1844.7	1893.5	1953.4	1975.4
12.5°	1606.4	1610.1	1626.0	1657.8	1705.4	1776.2	1864.2	1886.2	1957.1	2034.0	2067.0
15°	1617.4	1619.9	1635.8	1670.0	1722.5	1806.8	1918.0	1948.5	2032.8	2122.0	2164.7
17.5°	1656.5	1654.1	1665.1	1693.2	1751.8	1844.7	1982.7	2019.4	2118.3	2240.5	2268.6
20°	1822.7	1806.8	1797.0	1772.6	1795.8	1898.4	2060.9	2114.6	2236.8	2361.4	2381.0
22.5°	2180.6	2145.2	2075.5	1980.3	1907.0	1971.7	2155.0	2217.3	2374.8	2497.0	2497.0
25°	2636.3	2591.1	2521.4	2313.8	2134.2	2092.7	2261.2	2339.4	2525.1	2648.5	2608.2
27.5°	3206.8	3171.4	3035.7	2793.9	2519.0	2304.0	2384.6	2456.7	2658.3	2807.3	2723.0
30°	3671.0	3653.9	3542.7	3326.5	3023.5	2709.6	2614.3	2661.9	2835.4	3007.7	2920.9
32.5°	4063.1	4063.1	3949.5	3748.0	3464.5	3186.0	3004.0	3038.2	3204.3	3403.5	3242.2
35°	4494.4	4479.7	4388.1	4196.3	3878.7	3633.1	3558.6	3605.0	3755.3	3903.1	3506.1
37.5°	4947.6	4942.7	4847.4	4661.7	4402.8	4093.7	3919.0	3931.2	4008.2	4098.6	3815.1
40°	5439.9	5447.2	5322.6	5207.8	4963.5	4647.1	4312.4	4235.4	4307.5	4562.8	4385.7
42.5°	6021.4	6004.3	5950.6	5794.2	5597.5	5408.2	5006.2	4978.1	5041.7	5315.3	5123.5
45°	6697.0	6721.4	6628.6	6541.8	6409.9	6252.3	5916.4	5867.5	5937.1	6362.2	6089.8
47.5°	7373.8	7350.5	7410.4	7394.5	7465.4	7348.1	7051.2	6951.1	7118.4	7521.6	7120.9
50°	7889.3	7914.9	8039.5	8221.6	8525.8	8591.7	8307.1	8272.9	8347.4	8606.4	8043.2
52.5°	8224.0	8309.5	8505.0	8972.9	9521.4	9947.7	9731.5	9713.2	9682.6	9752.3	8925.2
55°	8442.7	8529.4	8784.7	9473.7	10418.1	11110.7	11121.7	11043.5	10842.0	10791.9	9749.8
57.5°	8308.3	8325.4	8689.5	9610.6	10915.3	11940.2	12299.4	12221.2	11848.6	11659.2	10477.9
60°	7467.8	7503.3	8010.2	9092.6	10699.0	12211.4	13080.0	13044.6	12636.5	12422.8	11044.8
62.5°	5978.7	6081.3	6602.9	7809.9	9693.6	11754.5	13396.4	13496.6	13178.9	12884.5	11223.1
63°	5705.0	5672.0	6223.0	7436.1	9427.3	11528.5	13401.3	13528.3	13203.4	12928.5	11174.2
65°	4223.2	4322.1	4680.1	5863.8	7845.3	10476.7	13099.5	13324.3	13113.0	12734.3	10633.1
67.5°	2371.2	2366.3	2762.1	3837.1	5491.2	8217.9	11844.9	12320.1	12276.2	11427.1	8814.1
70°	1160.5	1178.9	1341.3	1988.8	3184.8	5669.6	9842.7	10355.8	10371.6	8975.3	6094.7
72.5°	525.3	533.9	649.9	968.8	1637.0	3018.6	6782.5	7272.4	7182.0	5719.7	3365.6
75°	277.3	295.6	357.9	487.4	789.2	1244.8	3689.3	4163.3	3974.0	2613.1	1238.7
77.5°	205.2	211.3	243.1	310.3	422.7	485.0	1591.8	1893.5	1773.8	945.5	410.5
80°	150.3	155.1	180.8	219.9	266.3	246.8	599.8	687.8	616.9	321.3	125.8
82.5°	91.6	92.8	131.9	163.7	167.4	138.0	197.9	212.6	222.3	180.8	68.4
85°	33.0	41.5	89.2	118.5	99.0	69.6	83.1	91.6	100.2	114.8	40.3
87.5°	3.7	4.9	42.8	57.4	28.1	25.7	30.5	34.2	36.6	42.8	19.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P453633  
 CATALOG NUMBER: GALN-SA4C-830-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6
2.5°	1827.6	1832.4	1828.8	1822.7	1821.4	1817.8	1810.5	1810.5	1810.5	1812.9	1810.5
5°	1854.4	1858.1	1849.5	1837.3	1823.9	1806.8	1788.5	1777.5	1776.2	1773.8	1767.7
7.5°	1905.7	1910.6	1891.1	1861.8	1825.1	1783.6	1744.5	1707.8	1690.7	1677.3	1677.3
10°	1980.3	1985.1	1946.1	1893.5	1820.2	1735.9	1643.1	1558.8	1492.8	1462.3	1455.0
12.5°	2069.4	2071.9	2007.1	1915.5	1794.6	1632.1	1434.2	1249.7	1121.5	1062.8	1056.7
15°	2167.2	2150.1	2064.6	1924.1	1721.3	1418.3	1076.3	850.3	717.1	678.0	692.7
17.5°	2266.1	2234.4	2108.5	1910.6	1556.4	1076.3	723.2	580.3	538.7	527.7	527.7
20°	2359.0	2315.0	2140.3	1852.0	1270.5	741.5	536.3	502.1	494.8	487.4	488.7
22.5°	2451.8	2384.6	2168.4	1721.3	946.8	530.2	480.1	469.1	459.3	449.6	448.3
25°	2542.2	2449.4	2179.4	1479.4	645.0	455.7	438.6	423.9	404.4	393.4	390.9
27.5°	2636.3	2527.6	2172.1	1174.0	470.3	408.0	390.9	370.2	346.9	327.4	327.4
30°	2817.1	2676.6	2146.4	844.1	395.8	359.2	337.2	304.2	278.5	259.0	257.8
32.5°	3063.8	2870.8	2058.4	593.7	351.8	316.4	283.4	246.8	219.9	205.2	205.2
35°	3283.7	3066.3	1893.5	437.3	316.4	274.9	234.6	199.1	178.4	168.6	164.9
37.5°	3618.5	3352.2	1666.3	355.5	282.2	238.2	196.7	163.7	146.6	139.3	139.3
40°	4120.6	3701.5	1387.8	311.5	249.2	202.8	163.7	138.0	124.6	116.1	116.1
42.5°	4743.6	4129.1	1105.6	279.8	218.7	174.7	136.8	117.3	105.1	99.0	97.7
45°	5527.9	4579.9	851.5	250.4	194.2	149.0	116.1	99.0	86.7	83.1	84.3
47.5°	6346.4	4976.9	659.7	224.8	168.6	125.8	99.0	85.5	77.0	72.1	72.1
50°	7045.1	5250.6	500.9	195.5	149.0	106.3	86.7	77.0	69.6	67.2	66.0
52.5°	7629.1	5330.0	383.6	169.8	130.7	91.6	77.0	69.6	63.5	59.9	59.9
55°	8126.3	5260.3	300.5	142.9	109.9	79.4	68.4	62.3	55.0	51.3	50.1
57.5°	8417.0	5036.8	229.7	118.5	89.2	66.0	59.9	52.5	44.0	37.9	37.9
60°	8563.6	4711.8	175.9	97.7	68.4	52.5	48.9	39.1	30.5	25.7	24.4
62.5°	8387.7	4280.6	133.2	77.0	51.3	39.1	33.0	28.1	19.5	14.7	14.7
63°	8279.0	4156.0	128.3	73.3	47.6	36.6	30.5	25.7	17.1	13.4	12.2
65°	7547.2	3612.4	105.1	58.6	37.9	25.7	20.8	18.3	12.2	6.1	4.9
67.5°	5993.3	2763.3	83.1	44.0	26.9	18.3	12.2	11.0	3.7	0.0	0.0
70°	4052.1	1784.8	64.7	31.8	18.3	11.0	6.1	4.9	1.2	0.0	0.0
72.5°	2113.4	915.0	50.1	23.2	11.0	7.3	3.7	1.2	0.0	0.0	0.0
75°	747.6	311.5	36.6	14.7	7.3	3.7	1.2	0.0	0.0	0.0	0.0
77.5°	226.0	116.1	23.2	11.0	4.9	2.4	0.0	0.0	0.0	0.0	0.0
80°	79.4	42.8	13.4	7.3	3.7	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	39.1	20.8	8.6	6.1	3.7	1.2	0.0	0.0	0.0	0.0	0.0
85°	22.0	13.4	7.3	6.1	3.7	2.4	0.0	0.0	0.0	0.0	0.0
87.5°	15.9	9.8	7.3	6.1	4.9	2.4	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)