

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: P452796

Luminaire Tested: **GALN-SA3D-730-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452796
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15145 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

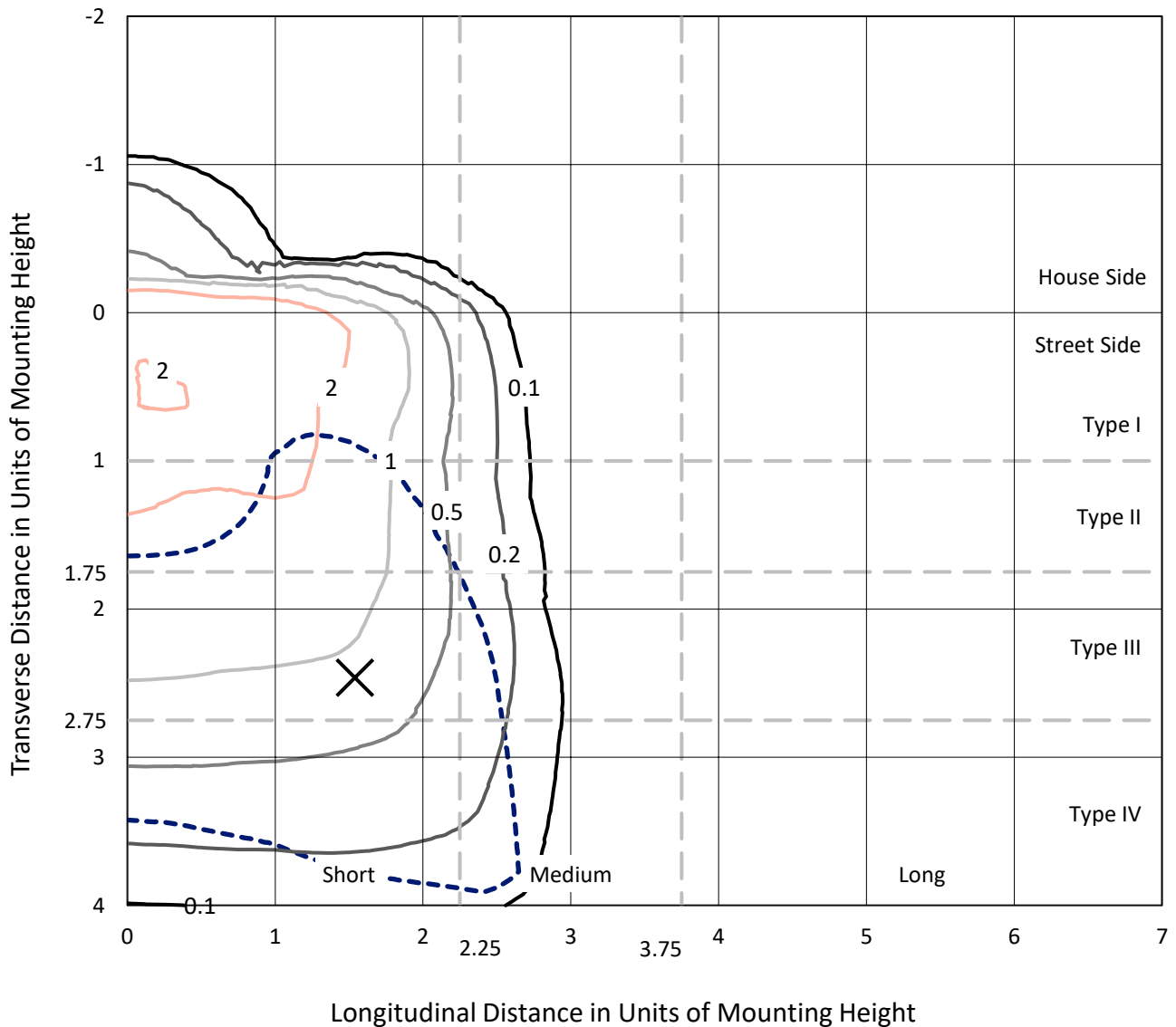
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

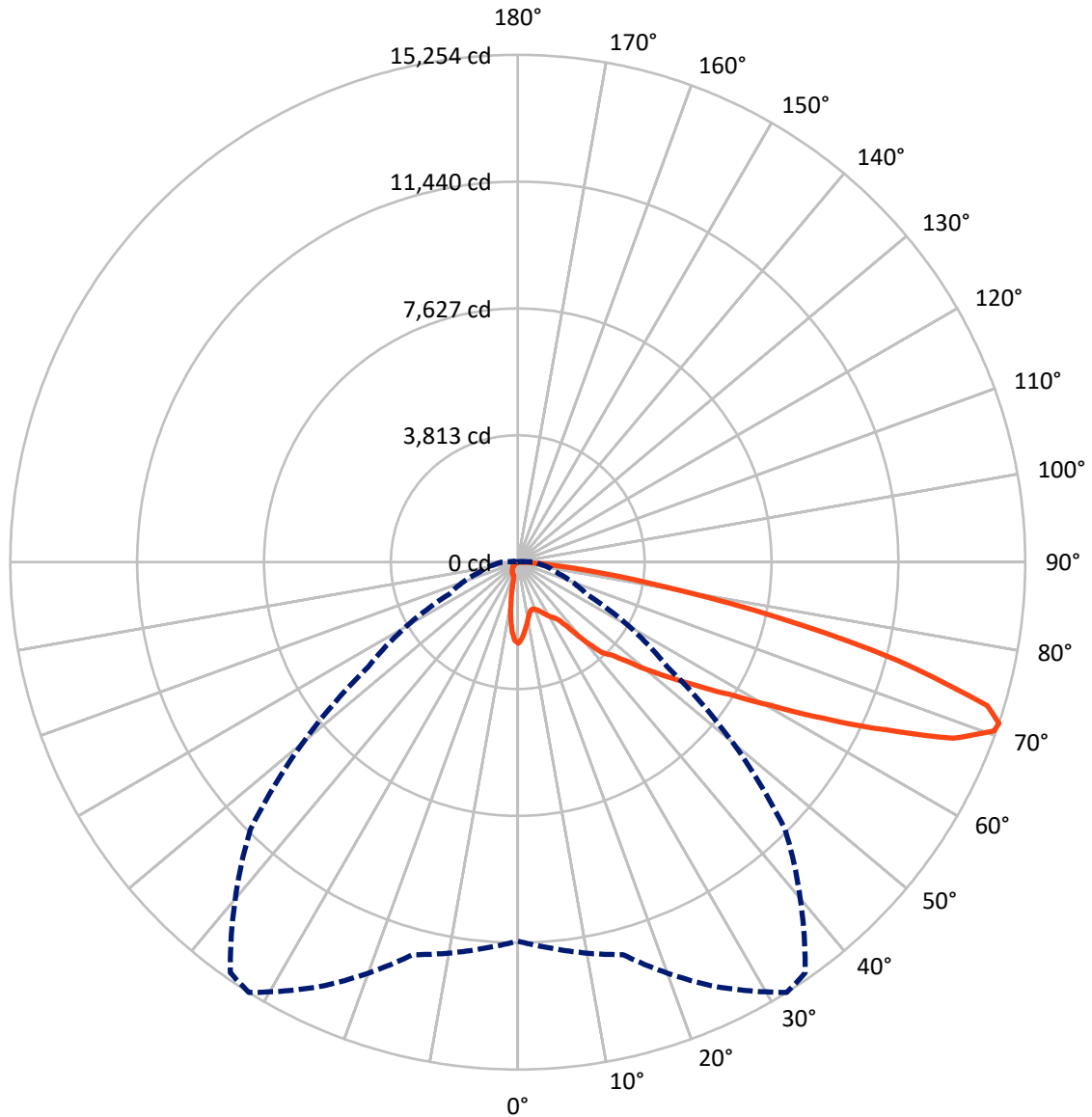
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1268.6	0.0	1268.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	13876.4	0.0	13876.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	15145.0	0.0	15145.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.0	1.3
10°-20°	429.8	2.8
20°-30°	668.7	4.4
30°-40°	1114.0	7.4
40°-50°	2072.2	13.7
50°-60°	3327.0	22.0
60°-70°	4475.0	29.5
70°-80°	2655.1	17.5
80°-90°	205.2	1.4
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°	15145.0	100.0
0°-180°	15145.0	100.0



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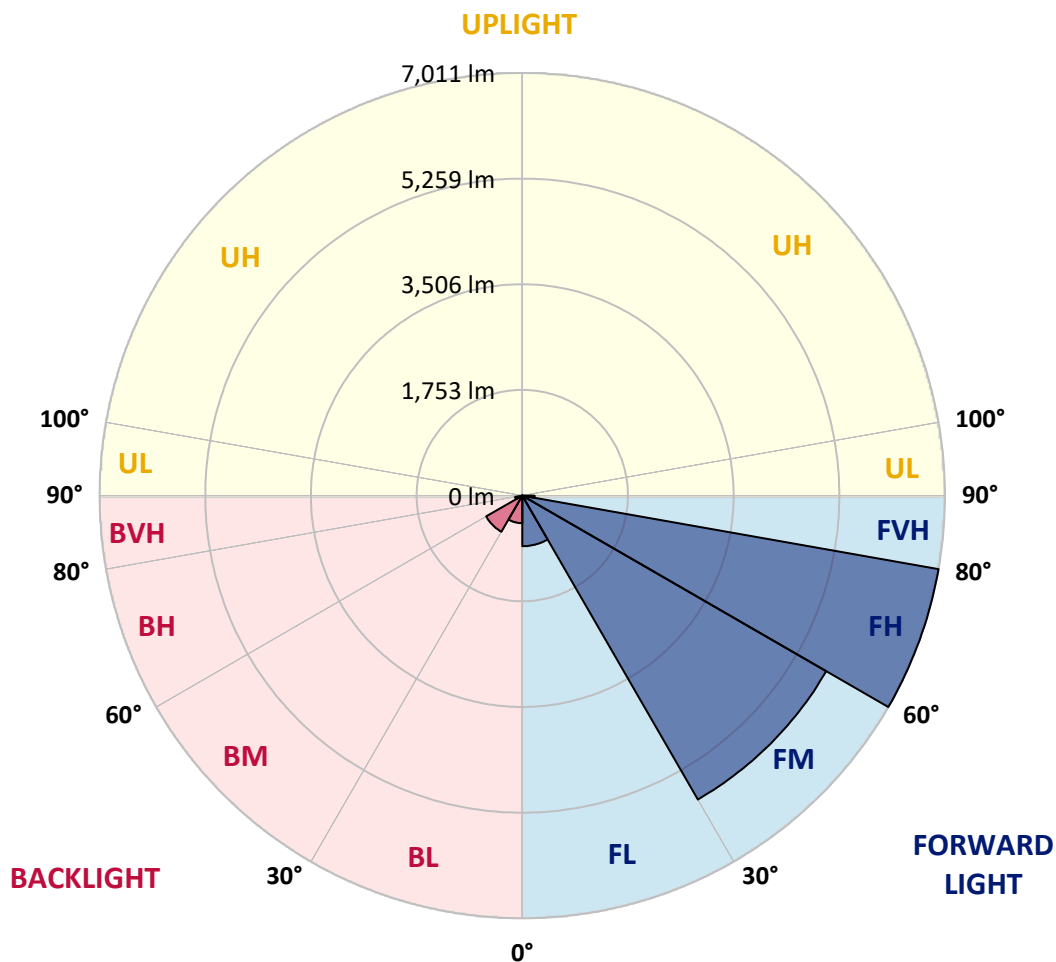
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	839.4	5.5			
FM	(30°-60°)	5821.2	38.4			
FH	(60°-80°)	7011.4	46.3			G3/7500
FVH	(80°-90°)	204.4	1.3			G2/225
BL	(0°-30°)	457.1	3.0	B1/500		
BM	(30°-60°)	692.0	4.6	B1/1000		
BH	(60°-80°)	118.7	0.8	B1/500		G1/500
BVH	(80°-90°)	0.8	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6
2.5°	2258.8	2282.1	2278.6	2286.7	2306.5	2314.6	2336.7	2361.1	2394.9	2418.1	2433.2
5°	2022.8	2040.3	2042.6	2083.3	2103.1	2125.2	2190.3	2261.2	2340.2	2403.0	2444.9
7.5°	1770.6	1779.9	1798.5	1851.9	1901.9	1924.0	2022.8	2146.1	2270.5	2387.9	2463.5
10°	1562.5	1572.9	1606.7	1663.6	1710.1	1739.2	1876.4	2031.0	2205.4	2379.7	2490.2
12.5°	1443.9	1449.7	1462.5	1513.6	1572.9	1604.3	1752.0	1928.7	2153.1	2383.2	2535.5
15°	1435.8	1433.4	1418.3	1439.2	1492.7	1525.3	1669.4	1858.9	2106.5	2394.9	2589.0
17.5°	1478.8	1473.0	1436.9	1436.9	1481.1	1507.8	1634.6	1821.7	2083.3	2421.6	2664.6
20°	1545.0	1535.7	1476.4	1471.8	1514.8	1542.7	1655.5	1824.0	2087.9	2471.6	2765.7
22.5°	1628.7	1618.3	1528.8	1531.1	1577.6	1605.5	1715.9	1865.9	2117.0	2533.2	2873.8
25°	1738.0	1726.4	1620.6	1616.0	1664.8	1689.2	1805.4	1940.3	2157.7	2609.9	3015.7
27.5°	1883.3	1858.9	1732.2	1725.2	1777.5	1808.9	1913.6	2040.3	2229.8	2715.7	3206.3
30°	2003.1	1976.3	1855.4	1836.8	1892.6	1917.1	2025.2	2175.1	2371.6	2900.6	3470.2
32.5°	2160.0	2120.5	1978.7	1929.8	1989.1	2020.5	2186.8	2426.3	2582.0	3095.9	3784.1
35°	2513.4	2489.0	2315.8	2144.9	2141.4	2181.0	2425.1	2679.7	2798.3	3400.5	4211.9
37.5°	3019.2	3001.7	2818.0	2589.0	2522.7	2504.1	2714.6	2958.7	3143.5	3819.0	4709.5
40°	3606.2	3565.6	3397.0	3202.8	3116.8	3062.2	3056.4	3373.7	3594.6	4387.5	5228.0
42.5°	4027.1	3952.7	3748.1	3734.1	3715.5	3658.6	3493.5	3980.6	4177.1	4999.0	5782.5
45°	4468.9	4356.1	4051.5	3999.2	3992.2	3988.7	4153.8	4699.0	4811.8	5661.6	6352.2
47.5°	4811.8	4722.3	4472.3	4449.1	4478.2	4557.2	5026.9	5461.7	5438.4	6252.2	6830.0
50°	5268.7	5201.3	4923.4	4967.6	5117.6	5246.6	6011.6	6292.9	5953.4	6717.2	7177.6
52.5°	5808.1	5683.7	5425.6	5545.4	5775.6	5990.6	7056.7	7020.7	6315.0	7067.2	7436.9
55°	6275.5	6187.1	6098.8	6223.2	6567.3	6835.8	8000.7	7565.9	6577.7	7348.5	7550.8
57.5°	7066.0	7045.1	6954.4	7081.1	7498.5	7777.5	8845.9	7989.1	6746.3	7495.0	7417.1
60°	8235.5	8201.8	8033.3	8194.8	8738.9	9177.2	9624.8	8369.2	6784.7	7438.0	7032.3
62.5°	9642.2	9527.1	9383.0	9621.3	10367.7	10560.6	10358.4	8594.8	6641.7	6984.6	6104.6
65°	10955.9	10837.3	10840.8	11343.0	12155.7	12287.0	11214.0	8561.1	6223.2	5848.8	4502.6
67.5°	11961.5	11941.8	12083.6	13063.6	14126.2	14035.5	11979.0	8056.5	4982.7	3791.1	2392.5
70°	12012.7	12051.0	12457.9	14112.3	15191.1	15046.9	11913.9	6548.7	3106.3	1743.8	942.8
71°	11394.2	11652.3	12215.0	14079.7	15253.9	15066.7	11365.1	5484.9	2278.6	1216.0	680.1
72.5°	9709.7	9845.7	11061.7	13250.8	14757.5	14357.6	9973.6	3844.6	1459.0	744.0	390.6
75°	5347.8	5682.6	7407.8	10395.6	11803.4	11452.3	6499.8	1826.4	727.8	406.9	161.6
77.5°	2546.0	2480.9	3614.4	6182.5	8003.0	7984.4	3274.9	811.5	424.3	275.5	81.4
80°	727.8	818.4	1383.4	2938.9	4443.3	4492.1	1257.9	391.8	294.1	215.1	41.9
82.5°	219.7	224.4	508.0	1299.7	2210.0	2083.3	472.0	200.0	211.6	170.9	24.4
85°	38.4	47.7	150.0	458.0	842.9	639.4	118.6	95.3	139.5	112.8	14.0
87.5°	2.3	3.5	50.0	52.3	74.4	43.0	20.9	14.0	30.2	30.2	8.1
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°	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6
2.5°	2443.7	2450.7	2446.0	2435.6	2418.1	2397.2	2369.3	2346.0	2326.3	2315.8	2328.6
5°	2458.8	2468.1	2444.9	2392.5	2313.5	2227.5	2129.8	2054.2	1994.9	1976.3	1969.4
7.5°	2482.1	2487.9	2425.1	2308.8	2141.4	1938.0	1760.1	1610.1	1493.9	1459.0	1407.9
10°	2512.3	2508.8	2390.2	2174.0	1879.9	1574.1	1298.6	1094.0	939.3	883.5	878.9
12.5°	2558.8	2540.2	2346.0	1990.3	1568.3	1168.4	827.7	647.5	549.9	517.3	510.4
15°	2616.9	2572.7	2276.3	1775.2	1200.9	754.5	510.4	455.7	442.9	440.6	438.3
17.5°	2685.5	2615.7	2184.4	1511.3	844.0	489.4	426.7	425.5	426.7	424.3	423.2
20°	2778.5	2661.1	2075.2	1198.6	558.0	412.7	406.9	406.9	408.1	406.9	406.9
22.5°	2877.3	2714.6	1940.3	914.9	420.8	391.8	390.6	392.9	395.3	394.1	394.1
25°	2999.4	2784.3	1762.4	626.6	376.7	374.3	375.5	380.2	384.8	386.0	384.8
27.5°	3176.1	2870.3	1571.8	431.3	345.3	347.6	359.2	370.9	377.8	379.0	379.0
30°	3374.9	2965.7	1323.0	349.9	319.7	319.7	333.7	355.7	370.9	373.2	374.3
32.5°	3630.7	3076.1	1047.5	315.1	295.3	293.0	305.8	332.5	360.4	368.5	368.5
35°	3946.9	3206.3	778.9	293.0	277.9	272.0	279.0	301.1	337.1	360.4	362.7
37.5°	4317.7	3329.6	569.7	273.2	261.6	253.4	258.1	275.5	304.6	339.5	348.8
40°	4660.7	3438.8	425.5	256.9	245.3	239.5	243.0	251.1	275.5	308.1	313.9
42.5°	5035.0	3523.7	338.3	239.5	229.0	226.7	226.7	230.2	246.5	265.1	266.2
45°	5408.2	3553.9	283.7	218.6	211.6	213.9	212.7	210.4	217.4	215.1	215.1
47.5°	5674.4	3517.9	234.8	198.8	198.8	202.3	196.5	188.3	184.8	170.9	172.1
50°	5857.0	3386.5	193.0	175.5	184.8	189.5	177.9	165.1	152.3	137.2	133.7
52.5°	5932.5	3152.8	158.1	145.3	163.9	169.7	155.8	140.7	120.9	108.1	104.6
55°	5883.7	2864.5	131.4	118.6	138.3	145.3	131.4	113.9	91.8	77.9	75.6
57.5°	5668.6	2520.4	111.6	94.2	110.4	115.1	105.8	87.2	65.1	51.2	51.2
60°	5296.6	2164.7	90.7	74.4	82.5	89.5	80.2	62.8	44.2	31.4	29.1
62.5°	4542.1	1757.8	73.2	58.1	58.1	63.9	55.8	45.3	27.9	16.3	15.1
65°	3279.6	1205.6	58.1	43.0	41.9	41.9	34.9	30.2	16.3	7.0	4.7
67.5°	1782.2	680.1	46.5	32.6	29.1	27.9	22.1	17.4	7.0	1.2	0.0
70°	701.0	261.6	36.0	22.1	18.6	17.4	11.6	8.1	4.7	0.0	0.0
71°	475.5	180.2	31.4	18.6	15.1	12.8	9.3	7.0	3.5	0.0	0.0
72.5°	272.0	111.6	24.4	14.0	11.6	9.3	7.0	4.7	3.5	0.0	0.0
75°	118.6	57.0	15.1	10.5	8.1	5.8	4.7	3.5	1.2	0.0	0.0
77.5°	60.5	31.4	10.5	8.1	4.7	3.5	2.3	1.2	0.0	0.0	0.0
80°	33.7	16.3	7.0	4.7	3.5	2.3	1.2	1.2	0.0	0.0	0.0
82.5°	18.6	9.3	3.5	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.6	5.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	2.3	0.0	0.0	0.0	0.0	1.2	1.2	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)