

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: P452462

Luminaire Tested: **GALN-SA3B-830-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11103 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 121
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

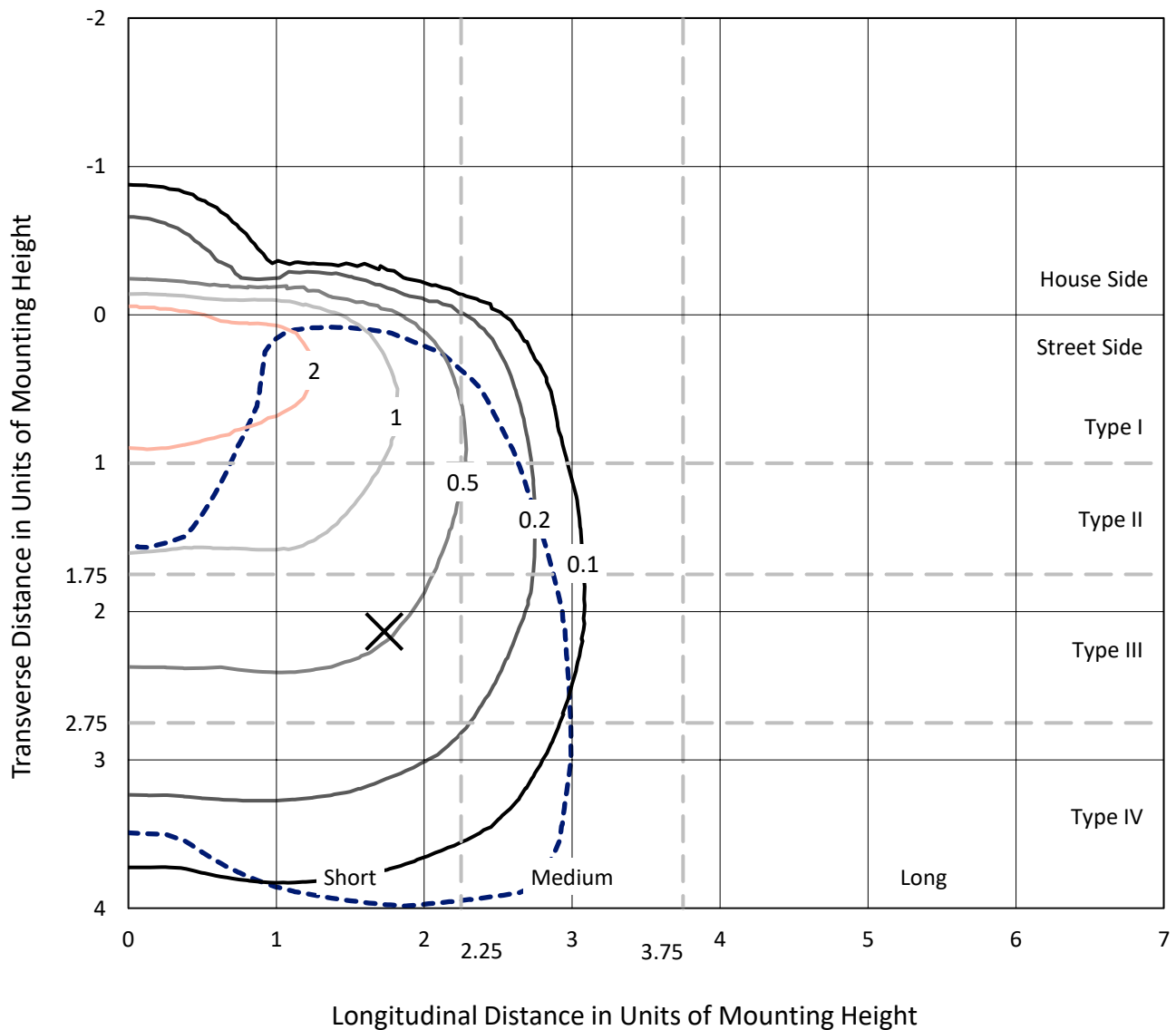


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Iso-Footcandle Lines of Horizontal Illumination

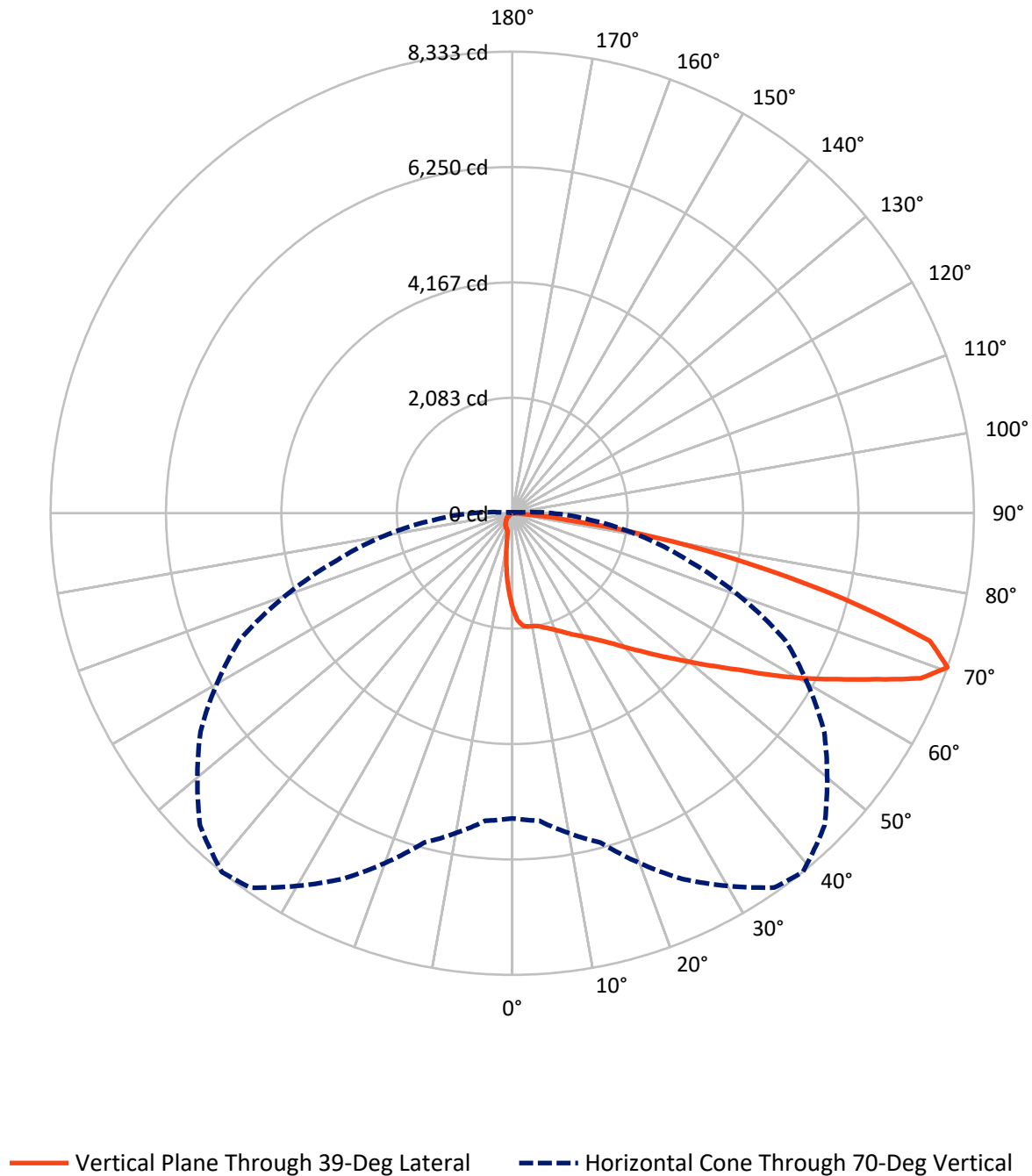
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	724.0	0.0	724.0
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	10379.0	0.0	10379.0
	% Fixture	93.5	0.0	93.5
Total	Lumens	11103.0	0.0	11103.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.8	1.3
10°-20°	384.0	3.5
20°-30°	643.3	5.8
30°-40°	997.7	9.0
40°-50°	1581.0	14.2
50°-60°	2317.6	20.9
60°-70°	2970.6	26.8
70°-80°	1866.6	16.8
80°-90°	194.5	1.8
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°	11103.0	100.0
0°-180°	11103.0	100.0

Coefficient of Utilization



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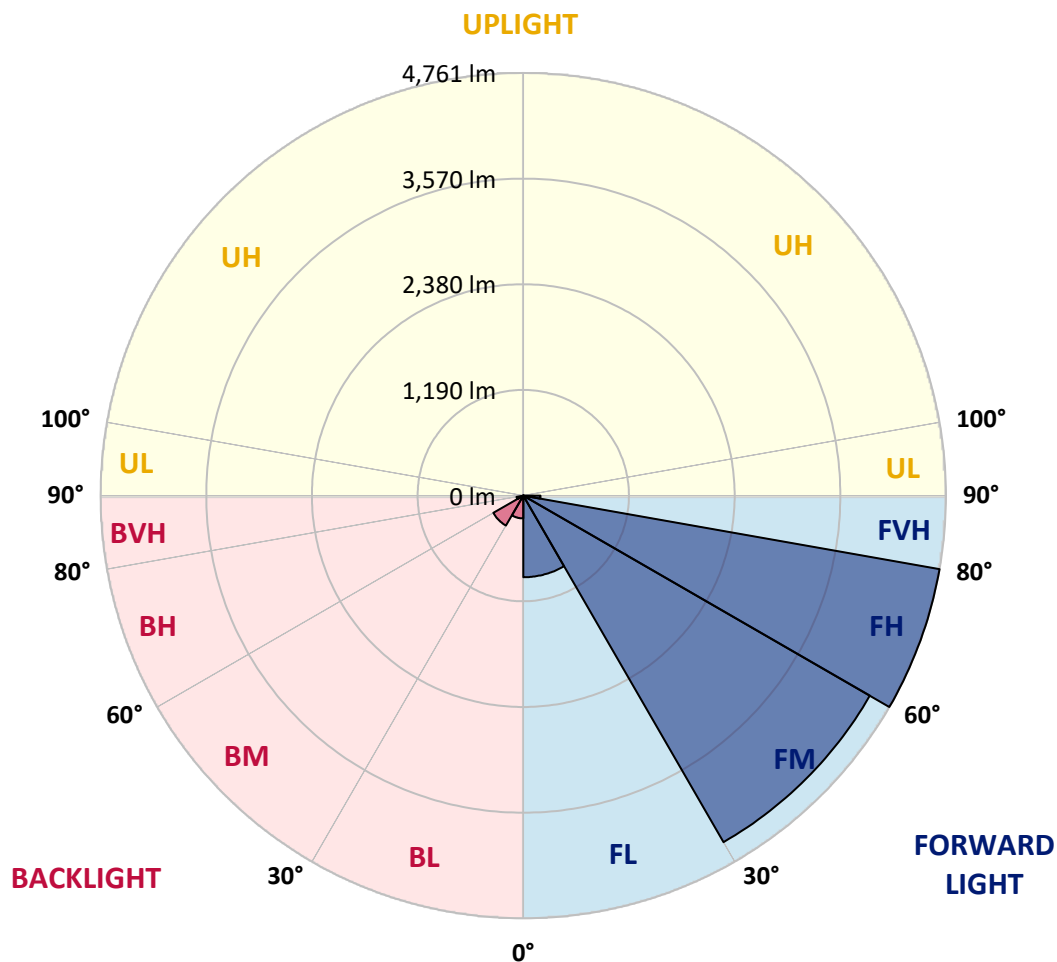
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	918.7	8.3			
FM	(30°-60°)	4506.7	40.6			
FH	(60°-80°)	4760.6	42.9			G2/5000
FVH	(80°-90°)	193.0	1.7			G2/225
BL	(0°-30°)	256.4	2.3	B1/500		
BM	(30°-60°)	389.6	3.5	B1/1000		
BH	(60°-80°)	76.6	0.7	B0/110		G0/110
BVH	(80°-90°)	1.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4
2.5°	2001.8	1995.1	1986.1	1975.7	1945.8	1940.6	1922.7	1884.7	1839.1	1801.8	1750.4
5°	2096.5	2100.3	2093.6	2074.9	2053.3	2040.6	2018.2	1959.3	1900.3	1825.0	1740.7
7.5°	2118.2	2125.6	2117.4	2099.5	2078.6	2065.2	2047.3	1996.6	1927.9	1842.1	1726.5
10°	2115.9	2124.9	2119.7	2103.3	2086.1	2073.4	2054.0	2013.7	1958.5	1868.2	1731.0
12.5°	2112.2	2124.2	2123.4	2115.2	2101.0	2091.3	2079.4	2043.6	1992.1	1906.3	1755.6
15°	2101.8	2116.7	2130.1	2136.8	2137.6	2137.6	2122.7	2084.6	2035.4	1956.3	1787.7
17.5°	2106.2	2123.4	2157.0	2176.4	2189.8	2188.3	2172.6	2131.6	2077.1	2007.8	1821.2
20°	2133.9	2157.0	2204.0	2242.8	2256.2	2251.7	2230.8	2183.1	2121.2	2051.8	1854.1
22.5°	2201.7	2222.6	2281.6	2327.1	2336.8	2324.9	2295.0	2230.1	2174.1	2099.5	1893.6
25°	2303.2	2327.8	2382.3	2416.6	2416.6	2409.9	2368.1	2292.0	2233.8	2165.9	1945.1
27.5°	2426.3	2447.2	2500.9	2531.5	2513.6	2494.2	2452.4	2360.7	2304.7	2249.5	2007.0
30°	2550.9	2564.4	2621.1	2634.5	2615.8	2591.2	2546.4	2454.7	2405.4	2362.9	2096.5
32.5°	2668.8	2697.9	2744.9	2741.9	2716.6	2704.6	2663.6	2565.8	2538.2	2533.8	2221.9
35°	2786.7	2809.1	2850.9	2861.3	2838.9	2836.7	2806.8	2734.5	2735.2	2764.3	2417.4
37.5°	2888.2	2908.3	2957.5	2980.7	2985.2	2996.3	2984.4	2936.7	3004.6	3084.4	2676.3
40°	2973.2	3001.6	3064.2	3104.5	3150.8	3191.8	3194.1	3204.5	3341.0	3478.3	3014.3
42.5°	3039.6	3079.2	3170.2	3244.8	3350.7	3403.0	3444.8	3502.2	3732.0	3937.2	3412.7
45°	3126.2	3171.7	3285.1	3402.2	3567.9	3653.7	3711.9	3865.6	4191.6	4471.4	3821.5
47.5°	3269.4	3293.3	3408.9	3579.8	3797.7	3920.0	4033.4	4266.2	4684.8	4935.5	4161.8
50°	3453.7	3469.4	3556.7	3793.9	4076.0	4237.1	4443.8	4717.6	5196.6	5320.5	4354.3
52.5°	3657.4	3662.6	3728.3	4029.7	4387.8	4590.8	4822.1	5160.0	5613.7	5595.0	4481.8
55°	3893.9	3886.4	3942.4	4285.6	4757.1	4989.2	5258.5	5612.9	5975.5	5789.8	4555.0
57.5°	4164.7	4144.6	4199.1	4625.1	5230.2	5507.7	5781.5	6003.9	6256.1	5953.1	4590.0
60°	4448.3	4408.0	4472.9	5006.3	5787.5	6050.9	6278.4	6338.1	6551.5	6083.0	4529.6
62.5°	4674.3	4675.1	4795.9	5412.2	6360.5	6591.1	6711.9	6765.7	6805.9	6054.6	4211.7
65°	5027.2	5039.2	5232.4	5975.5	7023.8	7223.8	7306.6	7132.0	6817.1	5702.5	3734.2
67.5°	5391.3	5429.4	5783.0	6751.5	7790.1	7951.2	7844.5	7202.9	6512.7	4898.9	2831.5
70°	5510.0	5572.6	6155.3	7285.7	8249.6	8333.2	7972.1	6872.3	5444.3	3275.4	1425.1
72.5°	5048.9	5150.3	5941.2	7091.0	7956.4	7884.1	7132.7	5763.6	3461.2	1243.8	435.0
75°	3560.4	3605.2	4937.7	5882.3	6399.3	6194.1	5425.7	3715.6	1423.6	349.2	149.2
77.5°	1838.4	1816.8	2936.7	3902.9	4563.9	4351.3	3552.9	1923.5	539.4	145.5	92.5
80°	950.5	966.2	1270.6	2045.1	2785.9	2563.6	1894.4	891.6	287.2	80.6	70.9
82.5°	532.7	499.9	730.4	893.1	1302.7	1021.4	726.7	631.2	125.3	48.5	67.1
85°	97.0	101.5	400.7	482.7	452.1	287.2	234.3	421.5	36.6	26.9	47.0
87.5°	1.5	1.5	77.6	138.8	88.0	40.3	73.9	60.4	7.5	10.4	8.2
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°	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4
2.5°	1724.2	1695.9	1642.9	1590.7	1524.3	1469.8	1433.3	1395.2	1356.4	1359.4	1368.4
5°	1694.4	1645.2	1540.7	1430.3	1324.3	1228.8	1134.8	1050.5	1016.2	984.9	986.3
7.5°	1664.6	1595.2	1442.2	1269.1	1108.7	946.1	828.2	731.2	679.7	640.9	629.7
10°	1651.1	1559.4	1351.9	1113.9	886.4	708.8	557.3	478.3	417.1	397.7	402.9
12.5°	1657.1	1541.4	1270.6	973.7	702.8	493.9	388.0	347.7	334.3	332.0	330.5
15°	1668.3	1528.8	1190.8	818.5	516.3	367.1	326.0	318.6	317.1	315.6	316.3
17.5°	1683.2	1517.6	1105.7	673.0	396.2	320.8	308.9	305.2	304.4	304.4	304.4
20°	1698.1	1504.9	1011.0	543.2	330.5	302.9	295.5	293.2	292.5	292.5	291.7
22.5°	1715.3	1493.7	914.7	426.8	304.4	290.2	283.5	282.0	281.3	280.5	280.5
25°	1739.9	1479.5	812.5	349.2	288.0	278.3	271.6	270.1	269.3	266.4	267.1
27.5°	1772.7	1469.1	707.3	301.4	273.1	263.4	258.9	256.7	255.2	252.9	253.7
30°	1817.5	1460.1	595.4	275.3	255.9	247.7	243.2	241.7	240.2	238.0	238.0
32.5°	1895.1	1463.9	477.5	254.4	240.2	230.5	226.1	224.6	223.1	220.8	220.8
35°	2011.5	1485.5	382.0	236.5	221.6	211.9	207.4	207.4	205.2	202.2	201.4
37.5°	2201.7	1540.7	306.6	219.4	203.7	194.7	189.5	188.0	185.8	181.3	180.6
40°	2426.3	1626.5	258.2	202.2	187.3	178.3	173.8	169.4	163.4	158.9	158.2
42.5°	2708.4	1714.5	223.8	185.0	171.6	163.4	158.2	150.7	141.8	135.8	135.0
45°	3002.3	1795.1	200.7	169.4	156.7	150.0	144.0	132.1	120.9	113.4	112.7
47.5°	3221.7	1810.0	182.0	154.4	144.0	137.3	129.1	114.2	99.2	92.5	90.3
50°	3325.4	1737.7	162.7	139.5	131.3	123.9	113.4	96.2	79.8	71.6	70.1
52.5°	3361.9	1612.3	147.0	126.1	118.6	109.7	97.0	77.6	62.7	54.5	53.7
55°	3347.0	1454.2	132.8	113.4	103.7	93.3	80.6	61.9	46.3	39.5	38.1
57.5°	3268.7	1252.7	118.6	100.7	88.8	78.3	64.2	46.3	31.3	25.4	24.6
60°	3057.5	978.1	104.5	86.5	75.4	64.2	50.7	32.8	19.4	14.2	14.2
62.5°	2700.9	726.0	91.0	72.4	63.4	51.5	35.8	20.9	10.4	7.5	6.7
65°	2257.0	535.7	76.1	61.2	53.0	40.3	25.4	12.7	5.2	2.2	1.5
67.5°	1575.0	330.5	63.4	50.0	43.3	29.1	15.7	5.2	2.2	0.0	0.0
70°	715.5	157.4	48.5	38.1	32.8	20.9	8.2	3.0	1.5	0.0	0.0
72.5°	222.3	82.8	34.3	27.6	22.4	13.4	4.5	2.2	1.5	0.0	0.0
75°	103.0	53.0	21.6	14.9	12.7	6.7	3.0	1.5	0.7	0.0	0.0
77.5°	76.8	41.0	12.7	8.2	6.7	4.5	2.2	1.5	0.7	0.0	0.0
80°	67.1	20.9	7.5	5.2	3.7	3.0	1.5	0.7	0.0	0.0	0.0
82.5°	60.4	10.4	4.5	3.0	2.2	1.5	0.7	0.7	0.0	0.0	0.0
85°	32.8	6.0	3.0	2.2	1.5	0.7	0.7	0.0	0.0	0.0	0.0
87.5°	6.0	3.0	2.2	1.5	1.5	0.7	0.7	0.7	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)