

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: P383156

Luminaire Tested: **GLEON-SA4D-735-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383156
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4D-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21132.2 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

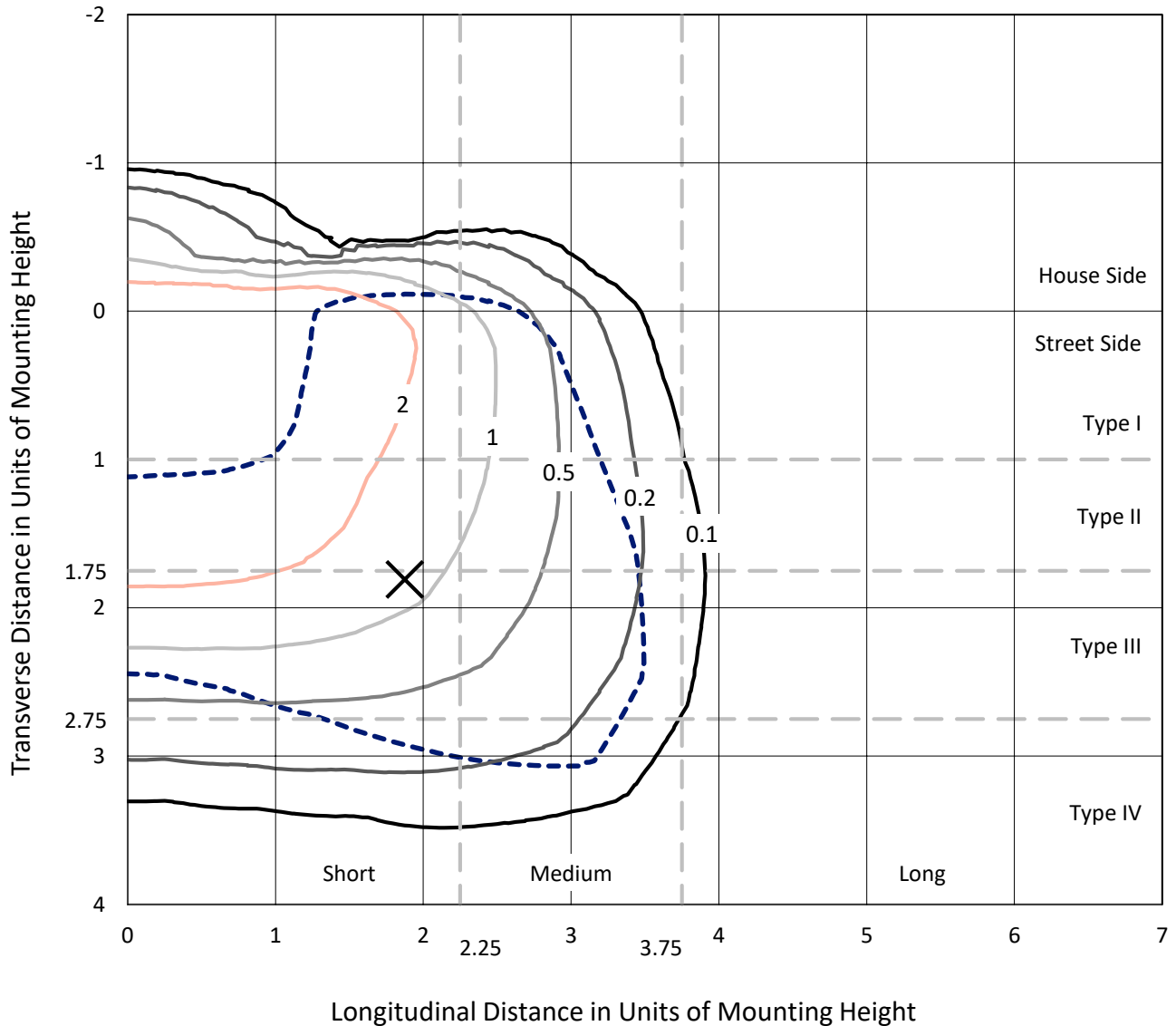
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

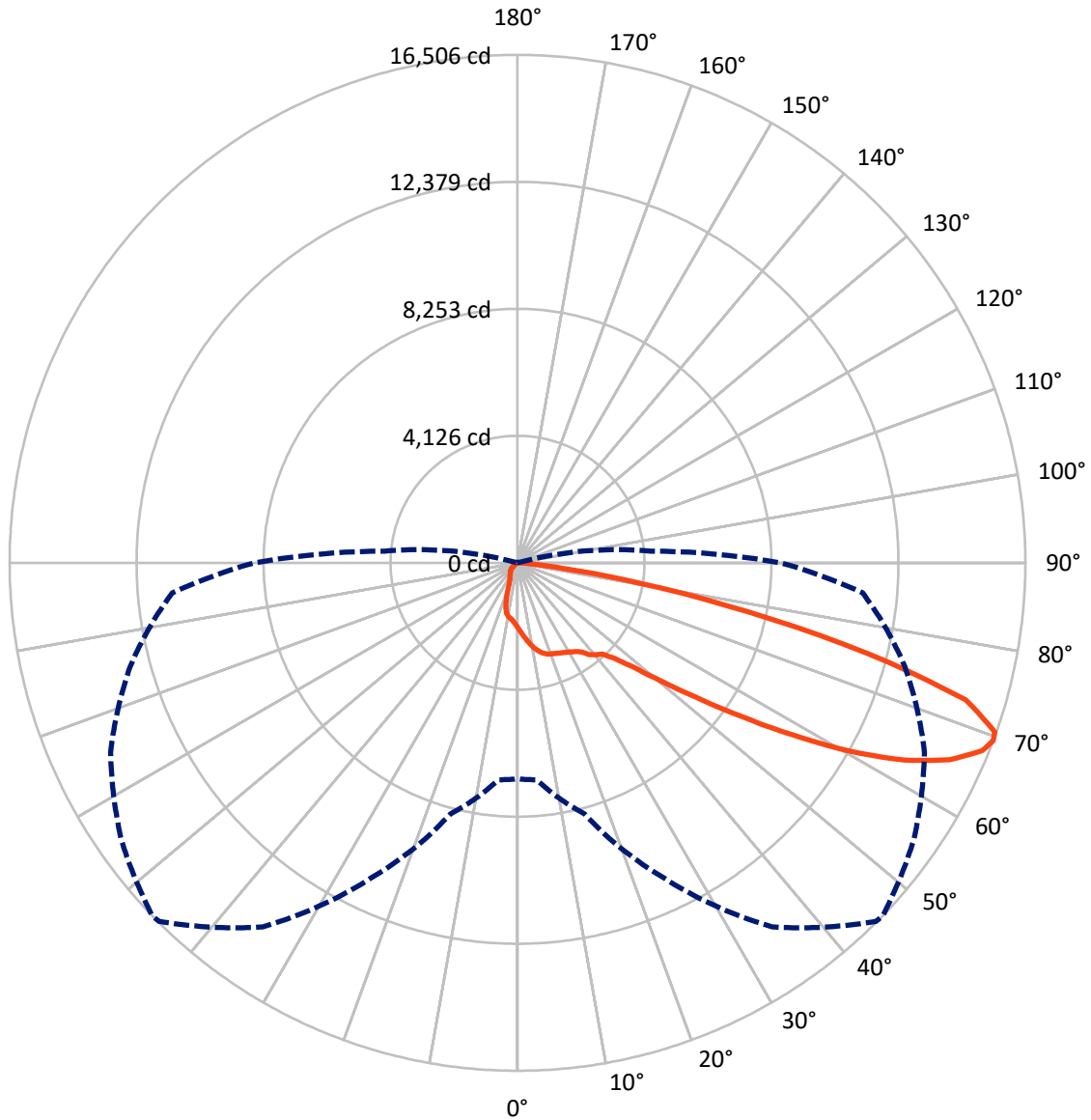
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2168.7	0.0	2168.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	18963.4	0.0	18963.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	21132.2	0.0	21132.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.8	1.0
10°-20°	639.4	3.0
20°-30°	1005.5	4.8
30°-40°	1441.9	6.8
40°-50°	2492.2	11.8
50°-60°	4923.5	23.3
60°-70°	6881.0	32.6
70°-80°	3324.3	15.7
80°-90°	213.7	1.0
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°	21132.2	100.0
0°-180°	21132.2	100.0

Coefficient of Utilization

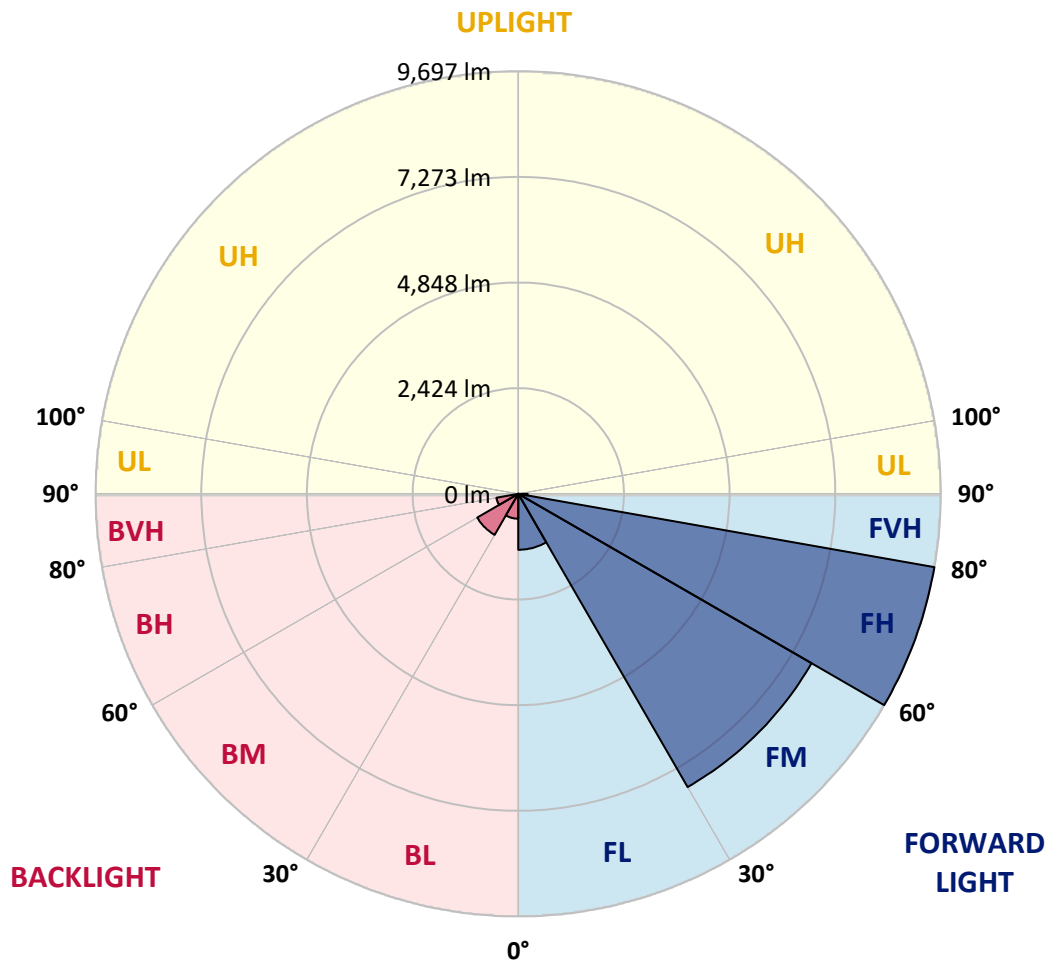


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1284.0	6.1			
FM (30°-60°)	7770.8	36.8			
FH (60°-80°)	9696.8	45.9			G4/12000
FVH (80°-90°)	211.9	1.0			G2/225
BL (0°-30°)	571.6	2.7	B2/1000		
BM (30°-60°)	1086.8	5.1	B2/2500		
BH (60°-80°)	508.5	2.4	B2/1000		G2/1000
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4
2.5°	2352.2	2349.2	2335.3	2329.4	2295.7	2275.9	2267.9	2243.2	2207.5	2171.9	2132.2
5°	2619.7	2618.7	2593.0	2568.2	2504.7	2445.3	2434.4	2376.9	2296.7	2221.4	2146.1
7.5°	2893.2	2880.3	2854.5	2806.9	2714.8	2619.7	2610.8	2529.5	2415.6	2306.6	2198.6
10°	3125.1	3117.1	3083.4	3011.0	2903.1	2795.1	2784.2	2684.1	2555.3	2421.6	2283.8
12.5°	3305.3	3299.4	3254.8	3164.7	3049.7	2937.7	2922.9	2833.7	2696.0	2546.4	2383.9
15°	3415.3	3412.4	3357.9	3261.7	3148.8	3051.7	3038.8	2960.6	2832.7	2676.1	2492.9
17.5°	3441.0	3442.1	3385.6	3288.5	3195.4	3126.0	3116.1	3056.7	2949.7	2794.1	2601.9
20°	3383.7	3395.5	3345.0	3260.8	3203.3	3166.6	3158.7	3123.0	3032.8	2886.2	2689.1
22.5°	3302.3	3308.3	3273.6	3217.2	3193.3	3200.3	3196.3	3176.6	3100.3	2965.5	2775.3
25°	3252.9	3252.9	3232.0	3184.5	3200.3	3242.9	3243.9	3239.9	3179.6	3062.6	2880.3
27.5°	3250.8	3244.9	3221.1	3185.4	3229.0	3294.4	3298.4	3325.2	3287.5	3180.5	3011.0
30°	3330.1	3323.2	3272.6	3226.0	3281.6	3351.9	3361.9	3420.3	3401.5	3308.3	3156.7
32.5°	3515.4	3490.6	3378.6	3302.3	3344.0	3428.2	3441.0	3534.2	3563.9	3465.8	3297.4
35°	3769.0	3690.8	3529.3	3447.0	3451.0	3539.1	3551.1	3687.8	3775.9	3610.5	3406.4
37.5°	4118.8	4080.2	3817.6	3597.6	3615.4	3749.2	3783.9	3932.5	3907.7	3689.8	3530.3
40°	4885.7	4825.2	4545.9	4019.7	3773.0	3919.7	3930.6	4009.8	4011.8	3869.1	3787.9
42.5°	5930.0	5905.3	5611.0	4785.6	4083.2	4033.6	4053.4	4187.2	4336.8	4247.6	4243.7
45°	7086.3	7073.4	6761.3	5802.1	4710.3	4407.2	4431.9	4611.3	4897.6	4917.4	5043.2
47.5°	8016.6	8010.8	7831.3	6936.7	5670.4	5040.2	5048.1	5238.4	5741.8	5990.4	6191.6
50°	8864.8	8893.5	8751.8	8164.3	6978.3	6032.1	6013.2	6140.0	6948.6	7355.8	7605.4
52.5°	10043.9	10084.5	9687.2	9309.7	8350.6	7262.6	7247.8	7380.6	8399.1	8704.3	8748.8
55°	11085.2	11015.8	10701.7	10592.7	10024.0	8782.5	8778.6	8895.5	9802.1	9931.9	10014.1
57.5°	11544.9	11518.2	11669.8	11919.4	11776.8	10578.9	10570.0	10480.8	11057.5	11071.4	11324.0
60°	11835.2	11867.9	12332.7	13102.5	13458.2	12512.0	12454.5	11910.6	12256.4	12225.6	12496.2
62.5°	11617.2	11681.7	12518.0	13801.0	14716.5	14199.3	14118.1	13220.4	13280.8	13174.8	13426.5
65°	10460.0	10560.0	11930.3	13669.3	15340.7	15518.1	15435.8	14376.7	14094.3	13919.9	13780.2
67.5°	8493.2	8552.7	9983.4	12522.9	15059.3	16304.8	16287.9	15390.3	14708.6	13794.1	12710.1
69°	7018.9	7077.3	8454.6	11316.1	14440.1	16473.2	16505.9	15715.2	14591.7	13029.2	11261.6
70°	5944.9	6007.3	7290.4	10281.7	13721.7	16395.0	16453.4	15684.6	14256.8	12143.4	9990.4
72.5°	3118.1	3171.5	4488.4	7083.3	11186.3	15054.4	15231.7	14358.9	12085.0	8819.2	5907.2
75°	979.9	1010.6	1752.7	3702.6	7659.0	11705.5	11746.1	11263.5	8581.4	4851.0	2460.2
77.5°	373.6	364.6	583.6	1364.3	3872.1	7370.7	7619.3	7038.7	4503.2	1715.1	567.8
80°	201.1	202.1	303.2	564.8	1656.7	3787.9	3997.9	3411.3	1600.1	535.1	130.8
82.5°	87.2	91.2	170.4	299.2	761.0	1397.0	1502.0	1250.4	611.4	359.7	48.5
85°	18.8	20.8	82.3	162.5	310.1	392.4	411.2	405.2	389.4	279.4	18.8
87.5°	0.0	0.0	36.7	58.5	78.2	89.1	78.2	102.1	215.0	188.3	9.9
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°	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4
2.5°	2119.4	2101.5	2070.8	2037.1	2013.4	1988.6	1968.7	1959.8	1949.9	1943.0	1951.9
5°	2115.4	2080.7	2021.3	1963.8	1922.2	1888.5	1860.8	1849.9	1839.0	1831.0	1830.0
7.5°	2150.1	2101.5	2010.4	1926.2	1861.7	1816.1	1778.5	1762.7	1749.7	1743.9	1738.9
10°	2216.4	2154.0	2032.2	1922.2	1839.0	1761.6	1680.4	1618.0	1577.4	1558.6	1551.6
12.5°	2302.6	2224.3	2073.8	1943.0	1822.1	1673.5	1501.1	1352.4	1256.4	1224.6	1205.8
15°	2403.7	2306.6	2128.3	1969.8	1760.6	1489.2	1196.9	1002.7	913.6	895.7	875.8
17.5°	2500.8	2393.8	2193.7	1974.7	1625.9	1190.0	876.9	745.1	710.4	722.3	725.3
20°	2586.0	2480.0	2258.1	1931.1	1381.2	892.7	678.7	646.0	658.9	681.7	685.6
22.5°	2672.2	2563.2	2317.5	1816.1	1068.1	677.7	611.4	619.3	632.1	655.0	658.9
25°	2777.2	2664.3	2373.0	1605.1	801.6	576.6	580.6	592.5	605.4	626.2	628.1
27.5°	2898.1	2792.1	2409.6	1330.6	594.5	530.1	543.0	560.8	573.6	593.5	597.5
30°	3058.6	2960.6	2421.6	1046.3	498.4	488.5	494.4	516.2	535.1	552.9	555.9
32.5°	3209.3	3127.0	2381.9	789.7	461.7	449.8	449.8	462.7	484.5	501.4	505.3
35°	3348.0	3294.4	2255.1	577.7	434.0	414.2	404.3	404.3	418.1	432.0	436.0
37.5°	3531.2	3529.3	2050.0	460.7	407.2	384.4	363.6	347.7	342.8	345.8	347.7
40°	3845.3	3848.3	1782.4	413.1	384.4	353.7	322.0	293.3	266.5	257.6	256.6
42.5°	4335.8	4291.2	1502.0	390.4	364.6	322.0	274.4	235.8	194.2	181.3	180.3
45°	5114.6	4850.0	1204.9	369.5	343.8	286.4	226.9	174.4	140.7	130.8	130.8
47.5°	6249.0	5584.3	933.3	346.8	316.1	245.7	171.4	125.9	103.0	98.1	99.1
50°	7422.2	6303.5	715.3	318.0	282.4	203.1	126.8	91.2	78.2	78.2	79.3
52.5°	8462.6	6830.7	557.8	287.3	240.8	159.5	96.1	71.4	65.4	64.4	65.4
55°	9436.5	7170.5	427.0	251.7	191.2	118.9	73.3	58.5	54.5	52.5	51.5
57.5°	10375.8	7338.9	320.0	203.1	138.7	86.2	58.5	49.6	45.6	42.6	41.6
60°	11001.0	7202.2	219.9	149.6	96.1	62.4	48.5	42.6	37.6	34.7	33.7
62.5°	11353.7	6828.7	141.7	108.0	68.4	46.6	38.7	35.7	28.7	25.8	25.8
65°	11211.0	6212.4	99.1	77.3	49.6	34.7	28.7	28.7	20.8	16.9	15.8
67.5°	9934.9	5248.3	75.3	57.5	35.7	25.8	21.8	24.8	12.9	7.9	7.9
69°	8547.7	4349.7	64.4	47.6	29.7	20.8	18.8	22.8	8.9	6.0	4.9
70°	7429.1	3752.2	58.5	41.6	24.8	17.8	16.9	21.8	8.9	4.9	4.0
72.5°	4444.8	2092.6	44.6	29.7	15.8	13.9	13.9	24.8	8.9	4.9	4.0
75°	1796.3	737.1	32.7	20.8	11.9	11.9	16.9	31.7	7.9	4.0	3.0
77.5°	407.2	161.5	18.8	12.9	7.9	11.9	19.8	24.8	4.9	2.0	0.0
80°	99.1	39.6	11.9	7.9	4.9	8.9	14.9	13.9	1.0	0.0	0.0
82.5°	32.7	13.9	4.9	4.0	1.0	3.0	6.9	4.0	0.0	0.0	0.0
85°	13.9	7.9	2.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
87.5°	8.9	3.0	0.0	0.0	0.0	0.0	0.0	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)