

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: P383696

Luminaire Tested: **GLEON-SA9D-735-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9D-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53522.1 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

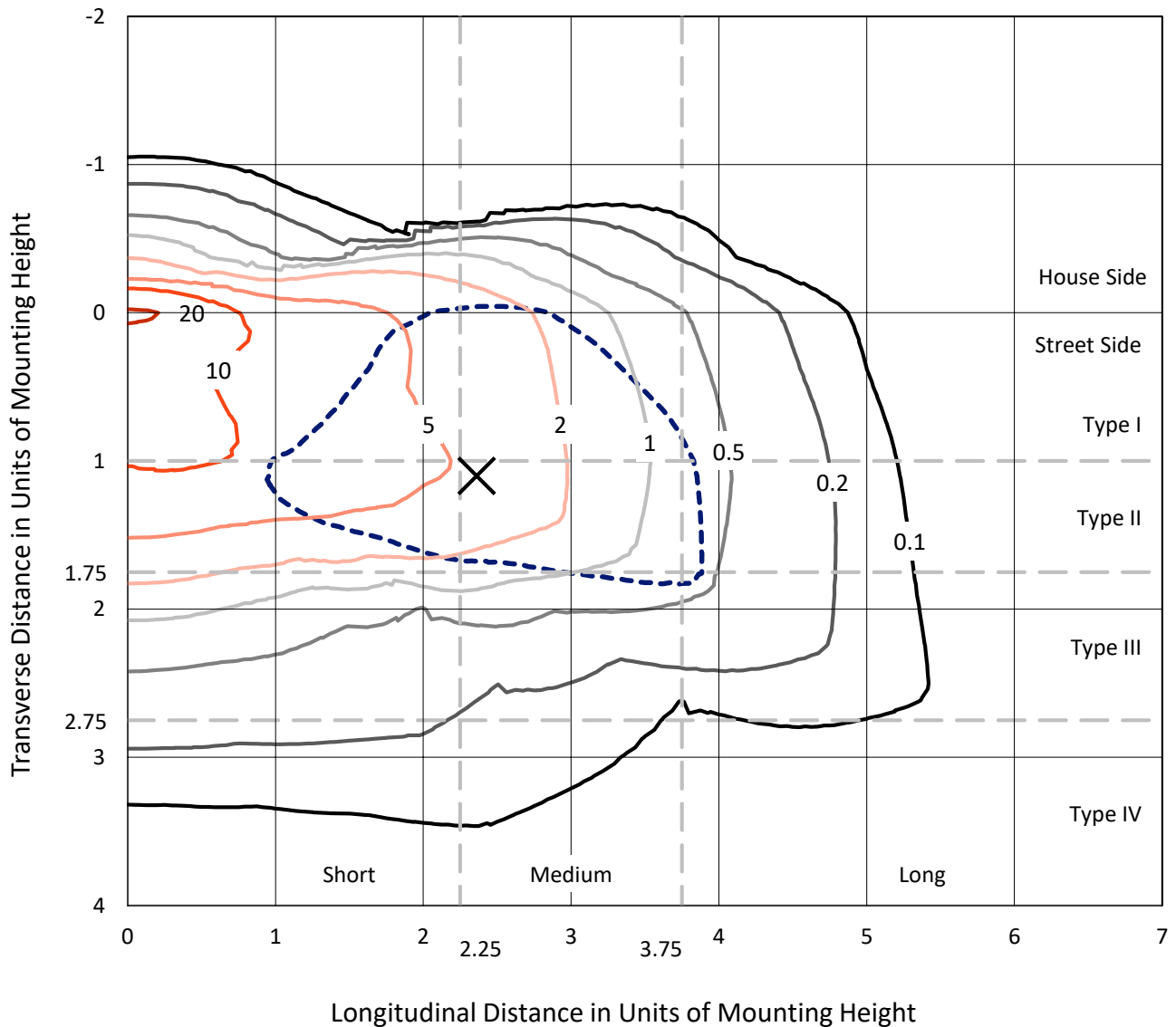
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

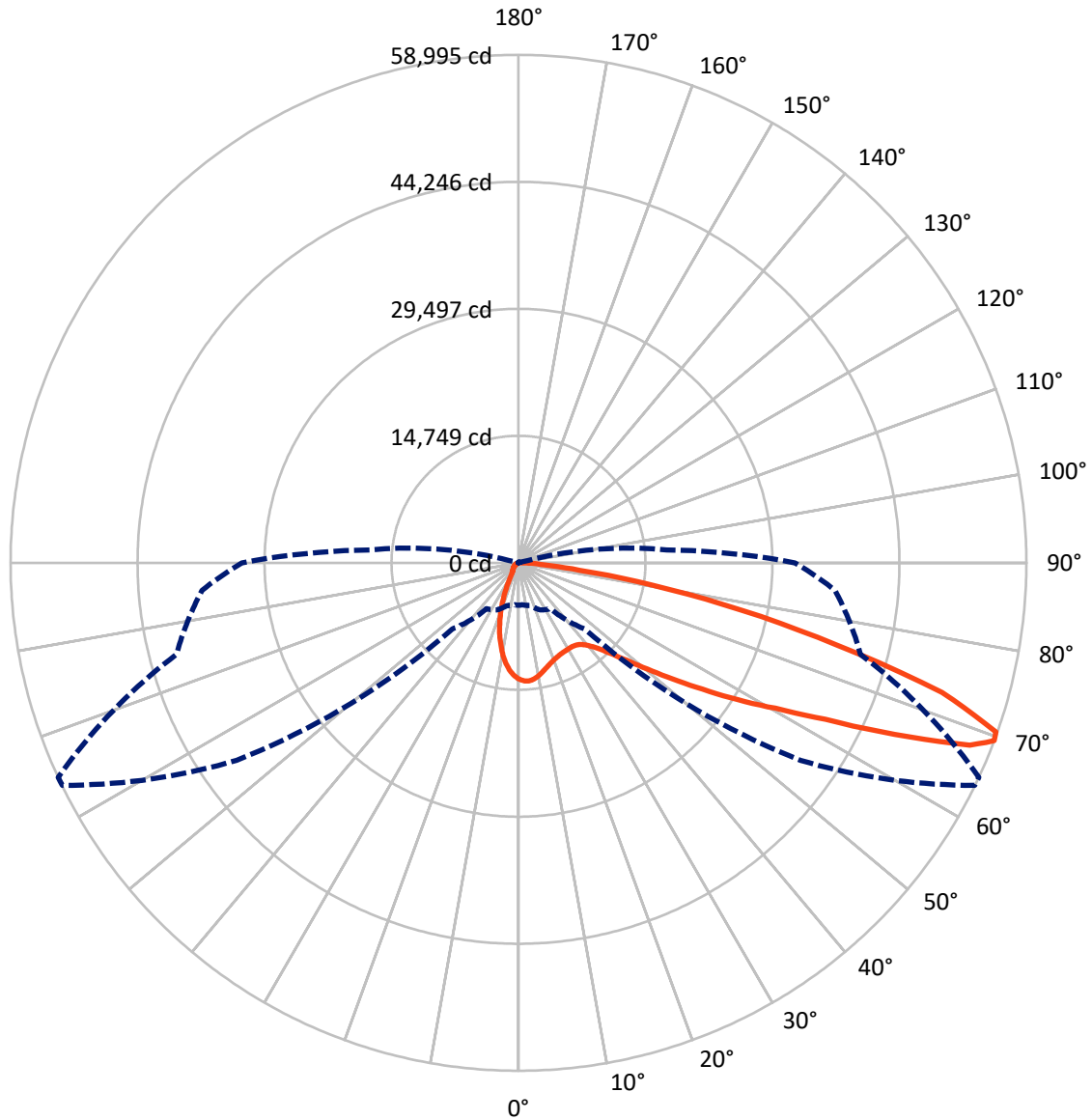
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6309.0	0.0	6309.0
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	47213.1	0.0	47213.1
	% Fixture	88.2	0.0	88.2
Total	Lumens	53522.1	0.0	53522.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1131.0	2.1
10°-20°	2475.8	4.6
20°-30°	3429.0	6.4
30°-40°	4781.2	8.9
40°-50°	7431.5	13.9
50°-60°	11930.5	22.3
60°-70°	13495.3	25.2
70°-80°	7925.9	14.8
80°-90°	922.0	1.7
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°	53522.1	100.0
0°-180°	53522.1	100.0

Coefficient of Utilization

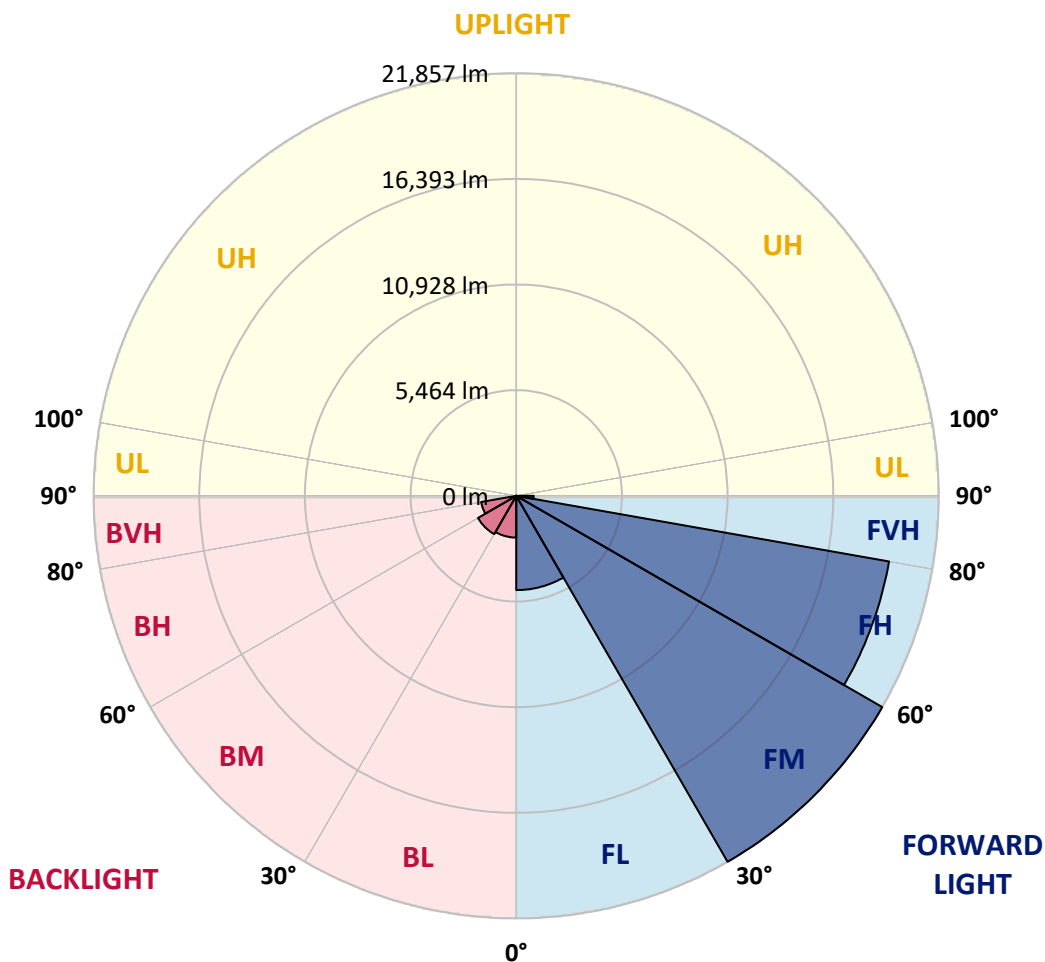


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4877.1	9.1			
FM (30°-60°)	21856.9	40.8			
FH (60°-80°)	19577.8	36.6			G5
FVH (80°-90°)	901.3	1.7			G5
BL (0°-30°)	2158.7	4.0	B3/2500		
BM (30°-60°)	2286.2	4.3	B2/2500		
BH (60°-80°)	1843.4	3.4	B3/2500		G3/2500
BVH (80°-90°)	20.7	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	13525.1	13525.1	13525.1	13525.1	13525.1	13525.1	13525.1	13525.1	13525.1	13525.1	13525.1
2.5°	13645.1	13611.2	13638.3	13697.2	13726.7	13726.7	13749.4	13722.2	13731.2	13665.5	13570.4
5°	12791.4	12739.3	12814.0	12979.3	13183.2	13357.6	13615.7	13751.6	13765.2	13767.4	13656.5
7.5°	11871.8	11824.3	11935.3	12130.1	12392.8	12716.6	13167.3	13561.4	13584.0	13796.9	13715.4
10°	11124.4	11090.5	11219.6	11427.9	11736.0	12098.3	12650.9	13199.0	13264.7	13735.8	13706.3
12.5°	10531.1	10503.9	10626.3	10866.3	11181.1	11581.9	12159.5	12795.8	12884.2	13597.6	13661.0
15°	10098.5	10094.0	10196.0	10426.9	10775.7	11149.4	11740.5	12422.2	12524.1	13448.1	13654.3
17.5°	9872.1	9878.9	9953.6	10150.6	10449.5	10821.0	11387.1	12107.4	12218.4	13314.5	13688.2
20°	9849.4	9856.2	9896.9	10008.0	10250.3	10578.7	11099.6	11842.4	11957.9	13214.8	13742.6
22.5°	10048.7	10044.2	10055.5	10044.2	10180.0	10429.2	10909.4	11638.6	11772.2	13149.2	13785.6
25°	10431.5	10424.7	10420.1	10336.4	10245.7	10379.4	10830.1	11523.1	11649.9	13101.6	13810.5
27.5°	10963.7	10959.2	10952.4	10814.2	10542.4	10458.7	10839.1	11480.0	11586.5	13063.1	13805.9
30°	11663.5	11695.2	11686.2	11493.6	11070.1	10701.0	10934.2	11457.4	11550.3	12988.4	13758.4
32.5°	12485.6	12549.0	12598.8	12392.8	11862.8	11181.1	11153.9	11482.3	11550.3	12931.7	13672.3
35°	13339.4	13420.9	13604.4	13531.9	12834.4	11903.6	11532.1	11631.8	11688.4	12963.4	13631.5
37.5°	14179.6	14277.0	14675.6	14886.2	14107.2	12859.3	12121.0	12000.9	12030.4	13156.0	13676.9
40°	15155.7	15303.0	15907.7	16247.4	15626.8	14138.8	13002.0	12635.0	12646.4	13579.4	13887.5
42.5°	16437.6	16589.4	17243.9	17776.1	17339.0	15755.9	14197.7	13604.4	13593.0	14372.1	14383.5
45°	18000.3	18158.8	18836.0	19427.1	19230.0	17671.9	15728.7	15019.9	15006.3	15622.2	15323.3
47.5°	19771.4	19927.6	20532.2	21141.5	21354.4	19909.5	17678.7	16951.7	16920.0	17359.4	16775.0
50°	21291.0	21392.9	21950.1	22769.8	23730.2	22658.9	20104.2	19404.4	19370.4	19667.1	18906.2
52.5°	21843.6	21902.5	22468.6	23616.9	26013.0	26382.2	23290.7	22389.4	22364.5	22493.5	21743.9
55°	20724.8	20831.3	21526.5	23229.6	27249.5	30590.1	27313.0	26085.5	25897.5	25619.0	24710.8
57.5°	17676.4	17846.3	18593.6	20858.4	26672.1	33928.3	33223.9	30266.2	29989.9	28286.8	27122.8
60°	13244.3	13452.7	14073.2	16516.9	23589.7	35117.3	39683.1	34924.8	34302.0	30411.1	29339.9
62.5°	9088.5	9192.6	9613.9	11206.1	17372.9	33169.6	45086.7	41164.2	40027.3	32721.2	31738.3
65°	6941.5	6977.8	7149.8	7697.9	10345.4	26943.8	47236.0	49396.6	48021.8	35484.2	34227.3
67.5°	5593.9	5564.5	5802.3	6585.9	6927.9	16437.6	44728.9	57185.1	56541.9	39178.0	36732.0
69°	4932.6	4891.8	5134.2	6044.6	6506.7	10866.3	39986.5	58953.8	58994.6	41127.9	36904.2
70°	4438.9	4466.1	4706.2	5723.1	6364.0	8529.1	35457.0	58503.1	58824.7	41857.2	35871.5
72.5°	2964.6	3037.0	3519.4	4751.5	6119.3	6454.5	21408.7	50202.9	51439.4	40215.3	30775.7
75°	1671.4	1725.8	2298.7	3582.8	5766.1	6146.5	11308.0	36985.7	38181.5	33629.3	23732.4
77.5°	819.9	849.3	1300.0	2312.3	4821.7	5856.6	6413.8	25122.9	26488.6	21950.1	13423.2
80°	346.5	362.4	649.9	1426.8	3446.9	5589.4	4762.8	15461.5	15631.4	8599.3	3576.0
82.5°	133.6	138.1	274.1	890.1	2190.0	4357.4	3983.7	7331.0	7154.4	1619.3	815.3
85°	15.8	18.1	99.7	534.5	1218.5	2242.1	3236.3	3159.3	2923.8	321.6	419.0
87.5°	0.0	0.0	6.8	163.0	362.4	1050.9	1682.7	1311.3	1182.2	104.1	217.4
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°	13525.1	13525.1	13525.1	13525.1	13525.1	13525.1	13525.1	13525.1	13525.1	13525.1	13525.1
2.5°	13491.1	13468.5	13346.2	13169.6	13002.0	12793.6	12594.3	12474.3	12379.1	12315.7	12390.5
5°	13527.4	13427.7	13056.3	12580.7	12114.2	11588.7	11099.6	10685.1	10522.0	10340.8	10422.4
7.5°	13516.1	13328.1	12660.0	11813.0	10956.9	10071.3	9233.4	8587.9	8252.8	7924.4	8008.1
10°	13459.5	13142.4	12130.1	10875.4	9593.5	8320.7	7131.7	6228.0	5723.1	5265.6	5331.2
12.5°	13334.9	12893.3	11505.0	9801.8	8087.4	6409.2	5016.5	3859.1	3238.6	2964.6	2998.6
15°	13260.1	12650.9	10843.7	8714.8	6479.5	4463.8	3066.5	2280.6	1997.5	1906.9	1918.2
17.5°	13223.9	12417.6	10159.7	7471.4	4835.3	2842.2	1981.7	1748.4	1687.2	1671.4	1675.9
20°	13187.6	12182.1	9455.4	6241.6	3331.5	1911.4	1628.3	1560.4	1537.8	1517.4	1521.9
22.5°	13126.5	11955.7	8698.9	4996.1	2246.6	1551.4	1467.6	1401.9	1354.3	1329.4	1334.0
25°	13051.8	11717.8	7926.6	3721.0	1639.7	1383.7	1304.5	1211.7	1155.0	1109.8	1112.0
27.5°	12931.7	11425.7	7129.4	2708.7	1377.0	1238.9	1132.4	1030.5	935.4	883.3	883.3
30°	12764.2	11095.0	6244.0	1938.6	1234.3	1096.2	967.0	840.3	738.3	690.7	686.2
32.5°	12578.4	10750.8	5349.3	1469.8	1121.0	962.5	815.3	681.7	591.1	552.6	550.4
35°	12420.0	10379.4	4457.1	1232.1	1007.8	833.5	672.7	559.4	486.9	455.2	452.9
37.5°	12318.0	10008.0	3587.4	1100.7	905.9	713.4	564.0	462.0	409.9	385.0	382.8
40°	12302.1	9731.7	2792.4	1001.0	810.8	607.0	471.1	391.8	344.2	317.1	314.8
42.5°	12508.3	9573.1	2142.5	917.2	713.4	514.1	400.8	335.2	285.3	258.2	255.9
45°	13049.5	9623.0	1648.7	842.5	616.0	434.8	339.7	278.5	233.3	212.9	208.4
47.5°	14036.9	9967.2	1311.3	767.8	523.2	369.2	289.9	231.0	192.5	172.1	169.8
50°	15794.4	10775.7	1096.2	686.2	437.1	314.8	240.1	188.0	156.3	138.1	135.9
52.5°	18127.1	12216.1	978.4	607.0	362.4	267.3	197.0	149.5	122.3	108.7	106.5
55°	20699.8	13960.0	901.4	520.9	296.7	222.0	156.3	117.7	95.1	83.8	79.3
57.5°	23211.5	15470.6	828.9	437.1	246.9	181.2	124.5	92.9	74.7	63.4	61.1
60°	25519.3	16858.9	745.1	351.0	201.6	142.7	97.3	72.5	58.9	47.6	47.6
62.5°	27990.1	17932.3	629.6	274.1	165.3	108.7	79.3	65.7	47.6	40.8	38.5
65°	30608.1	18729.5	493.7	212.9	129.1	81.5	65.7	67.9	38.5	29.4	27.2
67.5°	32542.3	18571.0	364.6	167.6	99.7	63.4	63.4	72.5	34.0	22.6	20.4
69°	32116.5	17282.4	305.7	144.9	86.1	54.3	58.9	72.5	31.7	20.4	18.1
70°	30882.2	15855.6	269.5	129.1	77.0	49.8	56.6	70.2	29.4	20.4	18.1
72.5°	25718.5	11942.1	210.6	97.3	61.1	40.8	47.6	61.1	29.4	20.4	15.8
75°	19345.5	7643.5	160.8	70.2	45.3	31.7	36.2	45.3	29.4	18.1	15.8
77.5°	10526.6	2756.2	115.5	47.6	31.7	24.9	24.9	34.0	27.2	13.6	9.0
80°	2706.4	693.0	72.5	31.7	24.9	18.1	15.8	22.6	15.8	2.2	0.0
82.5°	668.1	156.3	38.5	22.6	18.1	6.8	6.8	11.4	6.8	0.0	0.0
85°	366.9	77.0	24.9	15.8	9.0	0.0	0.0	2.2	0.0	0.0	0.0
87.5°	188.0	22.6	6.8	4.6	2.2	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)