

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: P382662

Luminaire Tested: **GLEON-SA0C-735-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382662
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0C-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55715.9 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

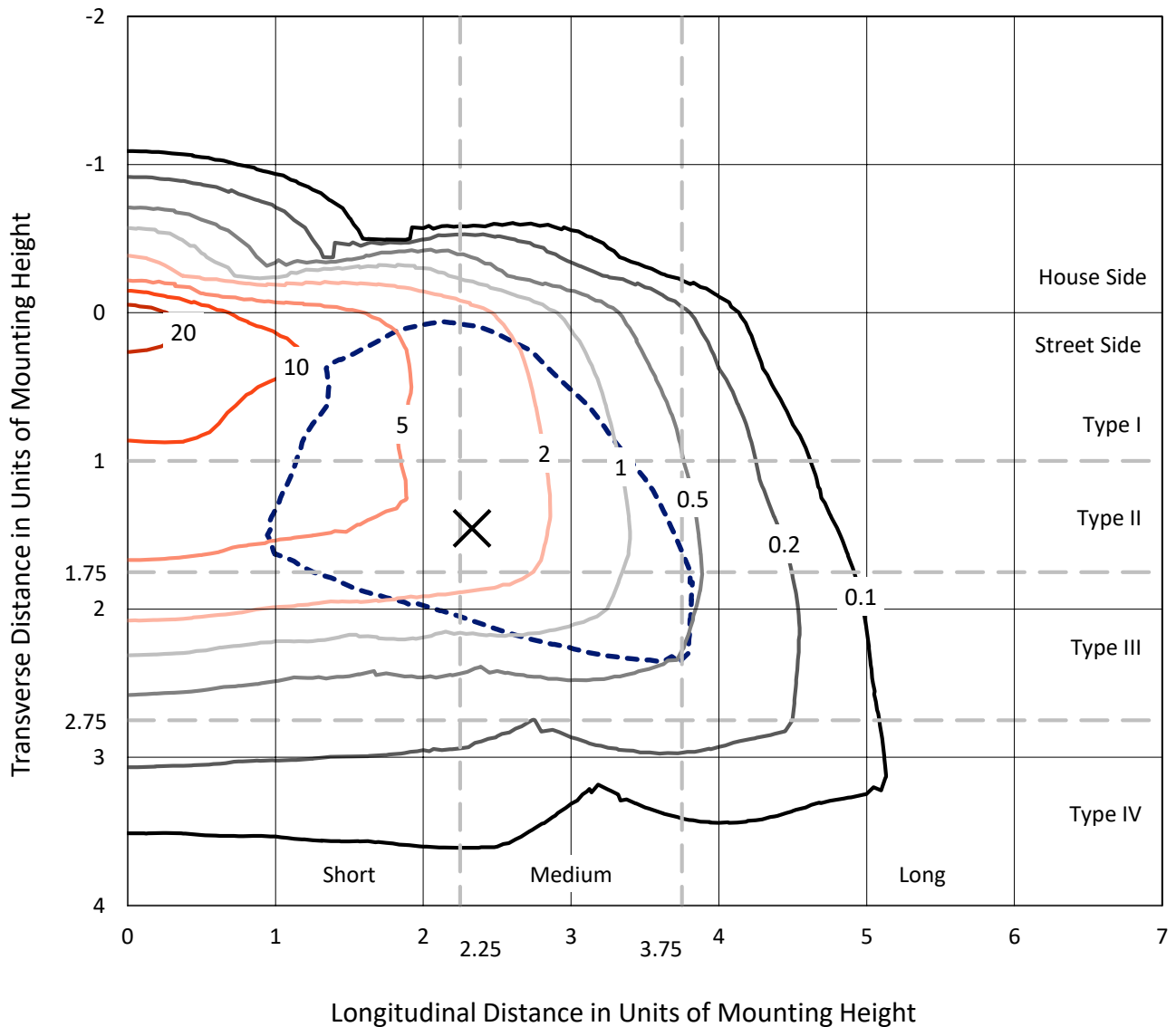
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

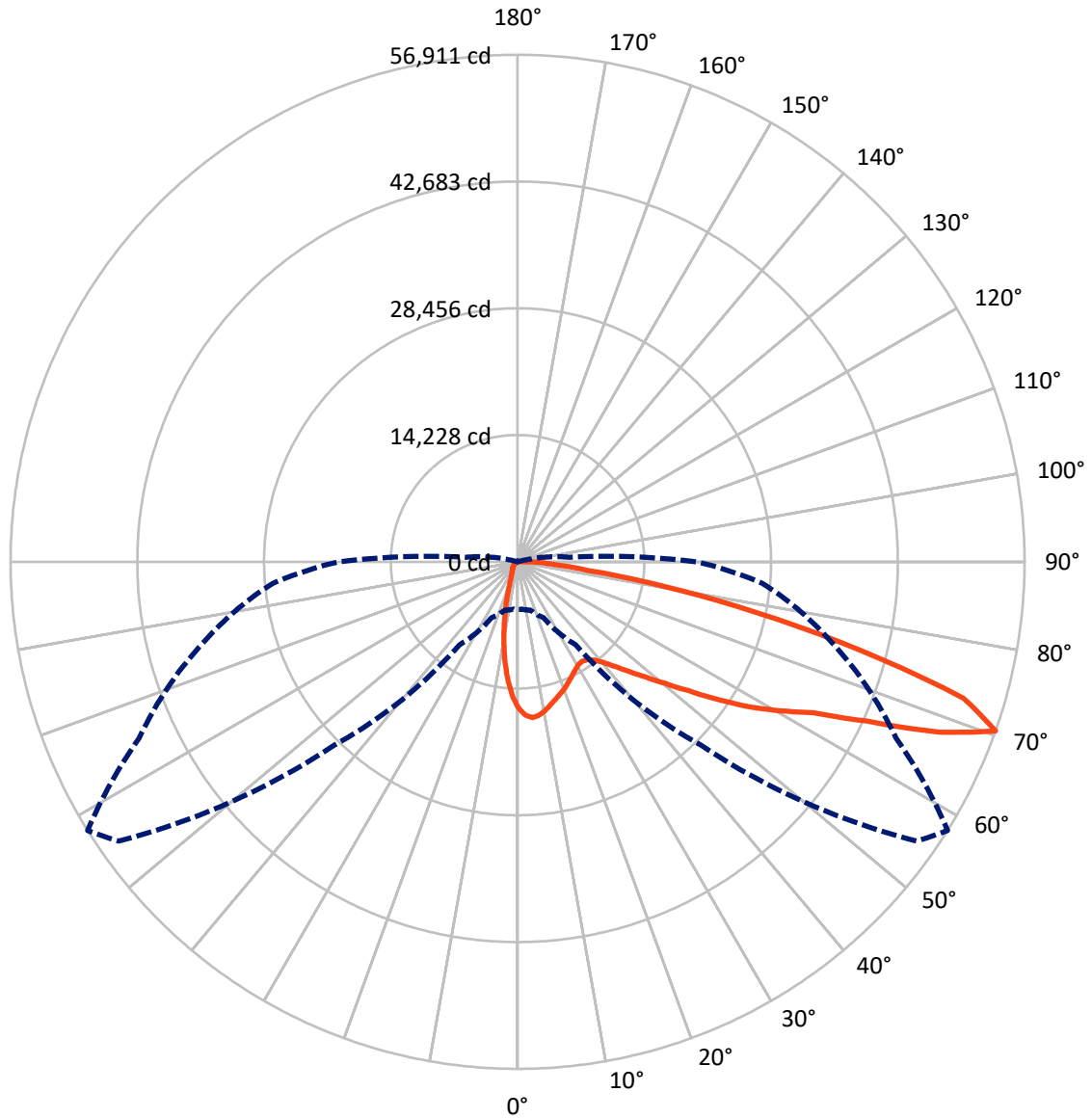
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4768.1	0.0	4768.1
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	50947.8	0.0	50947.8
	% Fixture	91.4	0.0	91.4
Total	Lumens	55715.9	0.0	55715.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1345.9	2.4
10°-20°	2824.6	5.1
20°-30°	3713.4	6.7
30°-40°	4918.0	8.8
40°-50°	7350.9	13.2
50°-60°	11775.9	21.1
60°-70°	14843.4	26.6
70°-80°	8006.5	14.4
80°-90°	937.2	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°	55715.9	100.0
0°-180°	55715.9	100.0

Coefficient of Utilization

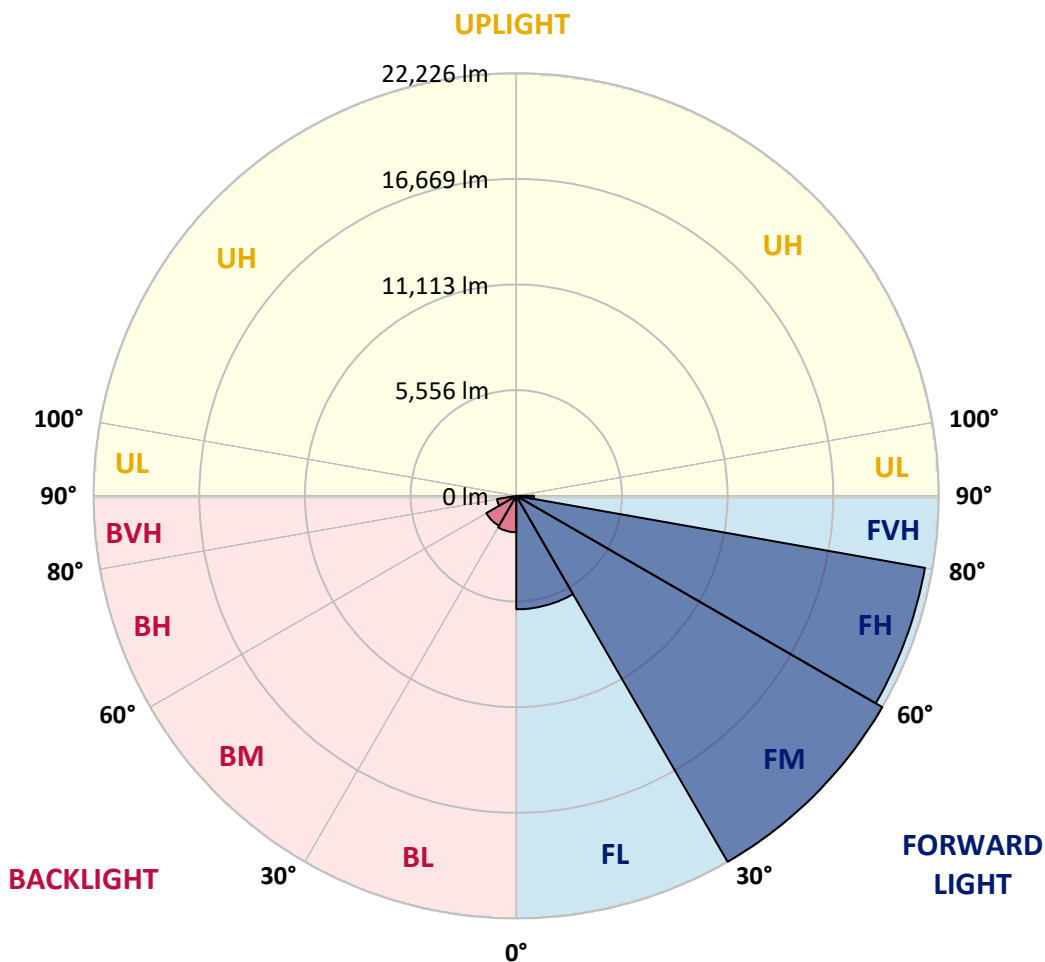


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5968.3	10.7			
FM (30°-60°)	22225.9	39.9			
FH (60°-80°)	21824.5	39.2			G5
FVH (80°-90°)	929.1	1.7			G5
BL (0°-30°)	1915.6	3.4	B3/2500		
BM (30°-60°)	1819.0	3.3	B2/2500		
BH (60°-80°)	1025.4	1.8	B3/2500		G3/2500
BVH (80°-90°)	8.1	0.0			G0/10
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°	58°	65°	75°	85°
0°	16458.2	16458.2	16458.2	16458.2	16458.2	16458.2	16458.2	16458.2	16458.2	16458.2	16458.2
2.5°	17822.7	17778.8	17762.6	17734.7	17628.1	17523.9	17317.7	17259.8	17130.0	16821.9	16495.3
5°	17836.7	17834.4	17883.0	17871.5	17834.4	17785.7	17637.5	17561.0	17340.9	16900.7	16303.0
7.5°	16977.2	17021.1	17130.0	17218.1	17320.1	17452.1	17470.6	17396.5	17215.7	16740.8	15948.6
10°	15823.5	15892.9	16045.8	16219.5	16486.0	16750.2	16986.4	16977.2	16914.6	16446.7	15522.2
12.5°	14667.3	14748.4	14924.5	15181.7	15559.3	15990.2	16411.9	16469.8	16574.0	16182.5	15128.4
15°	13654.9	13724.4	13898.2	14213.3	14681.3	15260.4	15879.0	15985.5	16254.3	15976.3	14799.4
17.5°	12795.5	12839.4	12966.9	13316.7	13858.8	14560.7	15364.7	15573.2	15974.0	15814.1	14514.4
20°	12195.4	12202.3	12285.7	12531.3	13073.4	13858.8	14831.8	15130.7	15677.5	15675.2	14220.3
22.5°	11898.8	11875.6	11891.9	12033.2	12431.7	13189.2	14299.0	14653.4	15411.1	15557.0	13921.3
25°	11843.2	11824.7	11778.4	11796.9	12037.8	12603.1	13761.5	14171.5	15177.1	15485.2	13661.9
27.5°	12017.0	12035.5	11956.8	11873.3	11891.9	12223.2	13284.2	13759.1	14987.1	15485.2	13478.8
30°	12366.9	12376.1	12318.1	12209.2	12063.4	12116.6	12953.0	13427.9	14892.1	15591.8	13363.1
32.5°	12753.7	12804.7	12797.7	12709.7	12501.2	12285.7	12874.2	13307.4	14885.1	15828.0	13351.4
35°	13233.3	13291.2	13388.5	13369.9	13152.2	12797.7	13142.9	13483.5	15021.9	16217.2	13476.5
37.5°	13742.9	13831.0	14039.5	14139.1	13997.8	13597.1	13745.3	13988.6	15387.9	16847.4	13794.0
40°	14236.5	14336.1	14716.0	15107.6	15001.0	14588.6	14658.1	14852.7	16038.8	17753.2	14396.3
42.5°	14720.6	14868.9	15427.3	16071.3	16198.7	15869.8	15906.8	16062.0	17004.9	18999.7	15380.9
45°	15299.8	15466.7	16293.7	17088.4	17428.9	17285.2	17442.9	17544.8	18267.6	20646.9	16708.4
47.5°	16150.1	16342.3	17357.1	18263.0	18860.7	18953.4	19270.7	19337.9	19863.9	22565.2	18439.1
50°	17808.9	17862.1	18779.6	19602.0	20463.9	21019.9	21381.3	21432.3	21796.0	24661.8	20600.5
52.5°	19896.3	19931.0	20450.0	21001.4	21981.4	23116.5	23962.2	24034.0	24110.4	26705.2	22734.3
55°	21969.7	21965.1	22308.0	22632.3	23753.6	25403.2	27238.1	27282.0	26733.0	28644.3	24365.3
57.5°	23264.8	23389.9	23911.2	24328.2	25894.3	28009.5	30555.6	30717.8	29487.6	30080.7	25977.7
60°	22852.4	22912.7	24068.8	25611.7	28560.9	31714.0	33912.6	33954.4	31558.8	31514.8	28016.5
62.5°	19470.0	19502.4	21318.7	24499.6	29911.6	36519.0	37962.3	37283.5	33940.4	33504.9	30456.0
65°	13344.5	13555.3	15072.8	19004.3	27430.4	39533.0	44231.5	43107.8	37570.7	36373.0	32661.5
67.5°	7858.4	7814.4	8565.0	11460.9	20146.5	37531.4	52161.6	51045.0	42521.7	38293.6	32015.1
70°	5367.9	5337.8	5625.1	6938.6	11372.9	29114.6	54656.8	56911.0	46893.4	37000.8	27553.1
72.5°	3831.9	3848.1	4272.1	5391.1	7140.2	16963.3	47002.3	52337.7	45524.2	32256.1	20943.4
75°	2601.7	2645.7	3252.7	4422.7	6259.9	8629.9	33354.2	39785.6	37070.4	23443.2	12037.8
77.5°	1399.3	1448.0	2163.9	3563.2	5659.8	5995.7	21455.4	27381.7	23285.7	10538.9	3489.0
80°	583.8	611.7	1012.4	2590.2	4890.6	5265.9	12624.0	16604.2	9922.7	2078.1	778.4
82.5°	252.5	266.4	421.6	1545.3	3655.9	4445.8	6683.9	7988.1	3007.1	456.4	391.5
85°	48.6	51.0	173.7	817.8	2333.0	2509.0	4332.3	4246.6	1350.7	196.9	285.0
87.5°	0.0	0.0	41.7	257.2	685.7	1366.9	2643.5	2610.9	458.7	95.0	106.6
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°	16458.2	16458.2	16458.2	16458.2	16458.2	16458.2	16458.2	16458.2	16458.2	16458.2	16458.2
2.5°	16328.4	16168.6	15832.7	15418.0	15100.6	14750.8	14472.7	14120.6	13967.7	13974.6	13891.2
5°	15962.4	15633.4	14889.8	13951.5	13228.6	12482.6	11840.9	11201.5	10823.8	10701.1	10585.3
7.5°	15438.8	14917.5	13731.4	12285.7	11062.5	9867.0	8826.8	7911.7	7332.5	7049.9	6945.6
10°	14848.0	14115.9	12399.3	10494.9	8748.1	7131.0	5782.6	4610.3	4142.3	3824.9	3743.9
12.5°	14329.1	13337.5	11097.2	8657.7	6584.2	4633.5	3347.7	2617.9	2300.5	2175.4	2154.6
15°	13840.3	12610.1	9843.8	6994.2	4559.4	2851.9	2129.1	1881.2	1807.1	1786.2	1786.2
17.5°	13379.3	11917.4	8618.3	5356.3	3016.4	1999.4	1763.0	1707.4	1684.2	1682.0	1684.2
20°	12897.4	11224.7	7413.6	3924.6	2105.9	1693.6	1628.7	1598.5	1591.6	1591.6	1591.6
22.5°	12436.3	10532.0	6241.4	2803.3	1688.9	1545.3	1512.8	1492.0	1485.1	1482.7	1478.1
25°	11993.9	9874.0	5096.9	1980.8	1482.7	1415.6	1387.7	1360.0	1339.1	1327.5	1320.6
27.5°	11630.1	9287.9	4031.2	1589.3	1339.1	1281.2	1246.4	1204.7	1153.7	1130.6	1121.3
30°	11340.5	8752.7	3106.8	1341.4	1204.7	1146.8	1093.5	1021.7	947.6	908.2	905.8
32.5°	11113.5	8226.8	2358.5	1186.1	1084.2	1012.4	935.9	845.7	759.9	715.9	713.6
35°	11002.2	7763.4	1802.5	1072.7	977.7	887.3	792.4	692.7	609.3	567.6	562.9
37.5°	11076.4	7371.9	1406.3	977.7	887.3	783.1	671.8	567.6	493.4	456.4	454.1
40°	11347.5	7121.7	1142.2	896.6	810.8	683.5	562.9	465.7	403.1	373.0	370.7
42.5°	11924.3	7029.0	975.3	829.4	736.8	590.8	468.0	384.5	326.7	305.8	301.2
45°	12888.1	7165.7	861.9	764.5	660.3	502.8	386.9	315.0	264.1	247.9	245.6
47.5°	14171.5	7524.8	780.7	702.0	590.8	423.9	322.0	254.9	215.5	199.3	196.9
50°	15825.7	8094.7	713.6	639.4	525.9	359.1	266.4	201.6	166.8	155.2	155.2
52.5°	17625.8	8773.5	653.3	581.5	461.0	298.8	215.5	155.2	132.1	118.1	118.1
55°	19113.2	9366.6	588.5	537.5	382.3	247.9	164.5	118.1	97.3	90.4	90.4
57.5°	20598.2	9999.1	514.3	461.0	305.8	201.6	125.1	88.0	71.8	67.2	67.2
60°	22523.4	10772.9	442.5	375.3	240.9	152.9	92.7	62.5	53.3	51.0	51.0
62.5°	24640.9	11227.0	377.6	301.2	187.6	113.6	67.2	41.7	39.4	39.4	37.1
65°	25936.1	10585.3	317.4	240.9	146.0	85.7	44.1	30.1	34.7	32.4	27.8
67.5°	24284.1	8287.0	259.4	187.6	113.6	64.8	27.8	20.9	37.1	30.1	23.2
70°	20107.1	5801.1	201.6	132.1	90.4	55.6	18.5	13.9	39.4	30.1	18.5
72.5°	15047.3	3882.9	159.9	88.0	67.2	48.6	16.2	7.0	34.7	25.5	16.2
75°	8222.1	1563.8	127.4	55.6	41.7	34.7	11.6	4.7	23.2	18.5	11.6
77.5°	2163.9	412.4	92.7	37.1	23.2	13.9	7.0	2.3	11.6	9.2	4.7
80°	551.4	159.9	60.3	25.5	16.2	7.0	0.0	0.0	2.3	0.0	0.0
82.5°	294.2	67.2	37.1	18.5	9.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	222.5	44.1	20.9	11.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	85.7	13.9	7.0	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)