

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: P383716

Luminaire Tested: **GLEON-SA9D-735-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383716
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-SA9D-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 46834.5 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

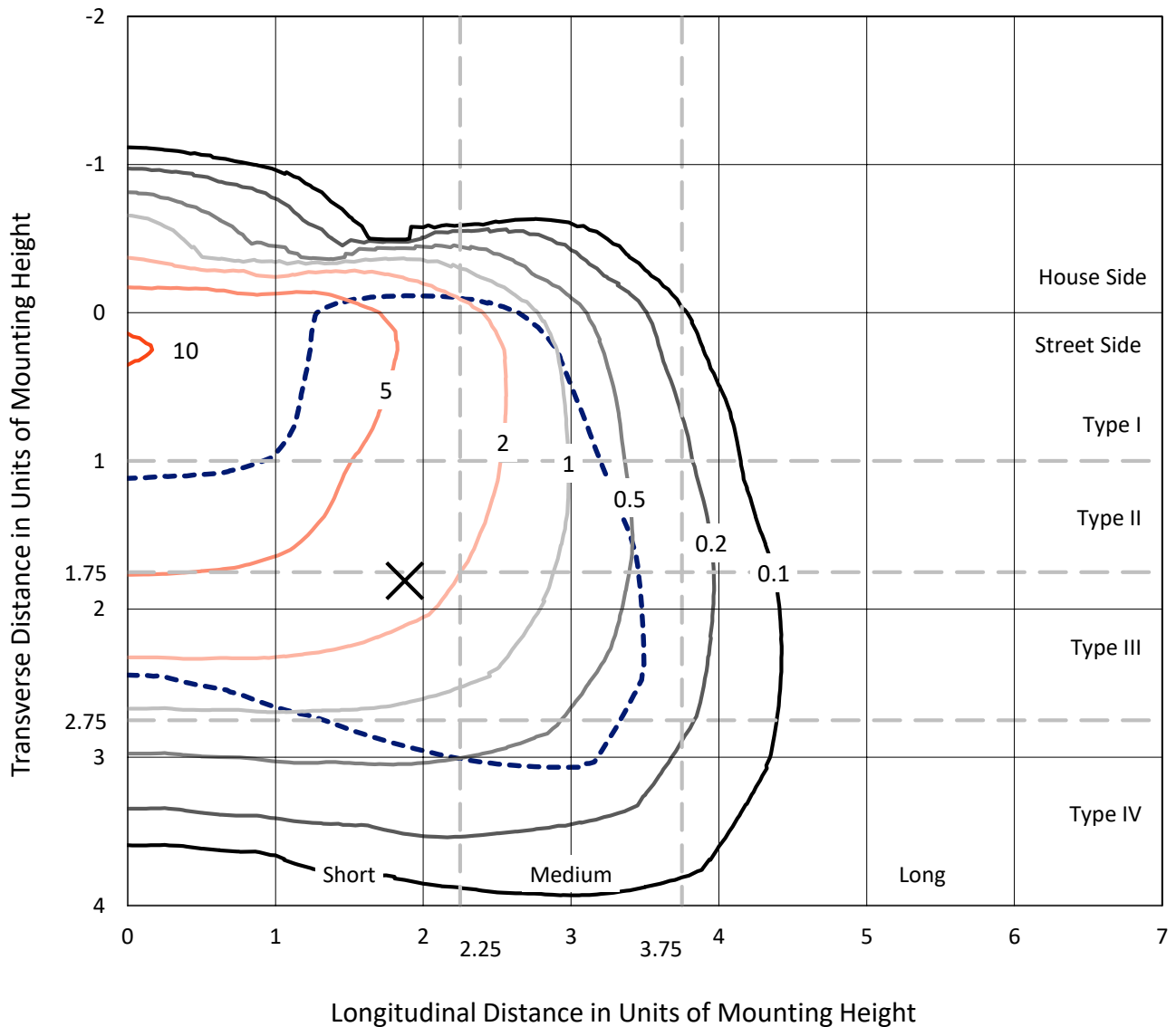
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

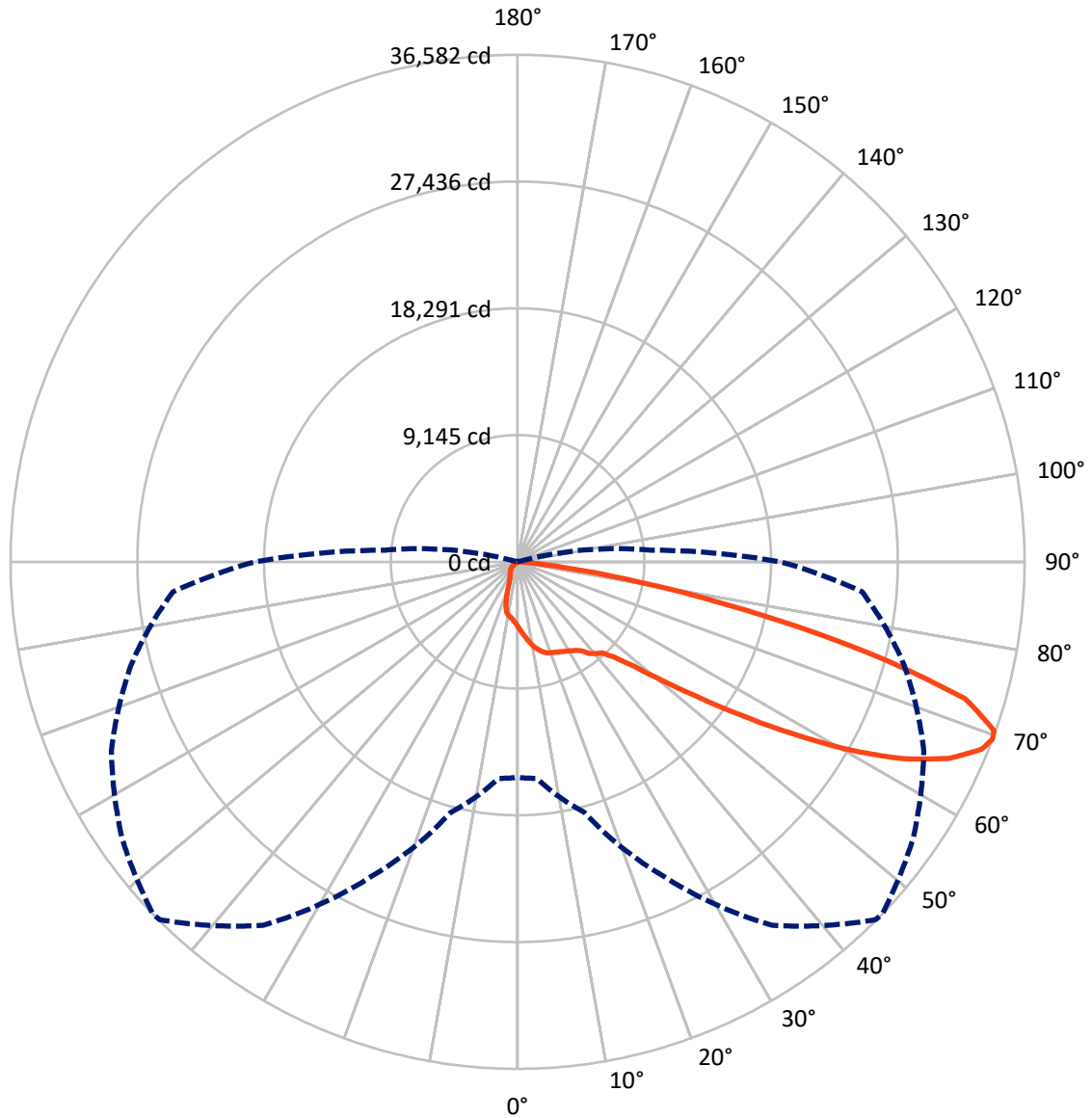
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	4806.5	0.0	4806.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	42028.0	0.0	42028.0
	% Fixture	89.7	0.0	89.7
Total	Lumens	46834.5	0.0	46834.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.1	1.0
10°-20°	1417.0	3.0
20°-30°	2228.5	4.8
30°-40°	3195.7	6.8
40°-50°	5523.3	11.8
50°-60°	10911.8	23.3
60°-70°	15250.2	32.6
70°-80°	7367.5	15.7
80°-90°	473.5	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°	46834.5	100.0
0°-180°	46834.5	100.0



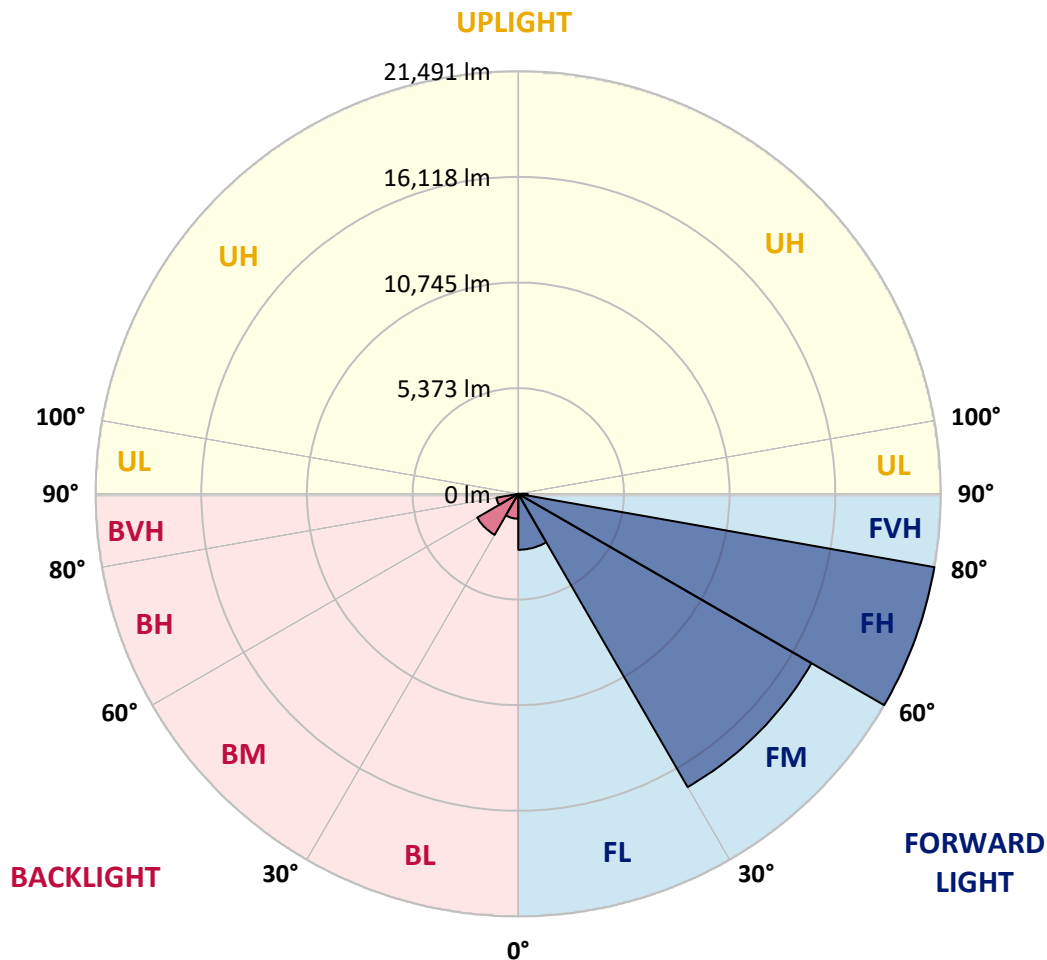
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2845.8	6.1			
FM (30°-60°)	17222.1	36.8			
FH (60°-80°)	21490.6	45.9			G5
FVH (80°-90°)	469.6	1.0			G3/500
BL (0°-30°)	1266.8	2.7	B3/2500		
BM (30°-60°)	2408.6	5.1	B2/2500		
BH (60°-80°)	1127.0	2.4	B3/2500		G3/2500
BVH (80°-90°)	4.0	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4692.7	4692.7	4692.7	4692.7	4692.7	4692.7	4692.7	4692.7	4692.7	4692.7	4692.7
2.5°	5213.0	5206.5	5175.8	5162.5	5087.9	5044.0	5026.4	4971.5	4892.5	4813.4	4725.6
5°	5806.0	5803.7	5746.7	5691.8	5551.3	5419.5	5395.3	5268.0	5090.1	4923.2	4756.3
7.5°	6412.0	6383.5	6326.4	6221.0	6016.8	5806.0	5786.2	5606.1	5353.6	5112.1	4872.7
10°	6925.9	6908.3	6833.6	6673.3	6434.0	6194.6	6170.5	5948.7	5663.3	5366.7	5061.6
12.5°	7325.5	7312.4	7213.5	7013.7	6759.0	6510.9	6477.9	6280.3	5975.0	5643.5	5283.4
15°	7569.3	7562.7	7441.9	7228.9	6978.6	6763.4	6734.8	6561.4	6278.1	5931.2	5524.9
17.5°	7626.4	7628.5	7503.4	7288.2	7081.8	6928.1	6906.1	6774.4	6537.2	6192.5	5766.5
20°	7499.0	7525.3	7413.3	7226.7	7099.3	7018.1	7000.5	6921.5	6721.7	6396.7	5959.7
22.5°	7319.0	7332.1	7255.3	7130.1	7077.4	7092.8	7084.0	7040.1	6871.0	6572.3	6150.7
25°	7209.2	7209.2	7163.0	7057.6	7092.8	7187.2	7189.4	7180.6	7046.7	6787.5	6383.5
27.5°	7204.8	7191.5	7138.9	7059.8	7156.4	7301.4	7310.1	7369.5	7286.0	7048.8	6673.3
30°	7380.5	7365.1	7253.0	7149.8	7272.8	7428.7	7450.7	7580.3	7538.5	7332.1	6996.1
32.5°	7791.1	7736.1	7488.1	7319.0	7411.2	7597.8	7626.4	7832.8	7898.7	7681.3	7308.0
35°	8353.2	8179.7	7821.8	7639.5	7648.3	7843.7	7870.1	8173.1	8368.6	8001.9	7549.5
37.5°	9128.3	9042.7	8460.8	7973.3	8012.8	8309.3	8386.2	8715.6	8660.6	8177.5	7824.0
40°	10828.0	10694.1	10074.8	8908.8	8362.0	8687.0	8711.2	8886.8	8891.2	8575.0	8394.9
42.5°	13142.5	13087.6	12435.4	10606.2	9049.3	8939.5	8983.5	9279.9	9611.4	9413.8	9405.0
45°	15705.1	15676.5	14984.9	12859.2	10439.3	9767.4	9822.2	10219.7	10854.3	10898.3	11177.2
47.5°	17767.0	17753.9	17356.4	15373.5	12567.1	11170.6	11188.1	11609.7	12725.2	13276.4	13722.2
50°	19646.7	19710.4	19396.4	18094.2	15465.7	13368.6	13326.9	13608.0	15399.9	16302.4	16855.7
52.5°	22259.9	22349.9	21469.3	20632.7	18507.1	16095.9	16063.0	16357.2	18614.6	19291.0	19389.8
55°	24567.7	24414.0	23717.9	23476.4	22215.9	19464.5	19455.7	19714.8	21724.1	22011.7	22193.9
57.5°	25586.6	25527.4	25863.3	26416.7	26100.5	23445.7	23425.9	23228.2	24506.2	24537.0	25096.9
60°	26230.1	26302.5	27332.4	29038.6	29826.9	27729.8	27602.5	26396.9	27163.3	27095.2	27694.7
62.5°	25747.0	25889.7	27743.0	30586.7	32615.7	31469.4	31289.4	29299.9	29433.8	29198.9	29756.6
65°	23182.1	23403.9	26440.9	30294.7	33999.2	34392.2	34210.0	31862.6	31236.7	30850.2	30540.6
67.5°	18823.2	18955.0	22125.9	27754.0	33375.5	36135.8	36098.4	34108.9	32598.1	30571.3	28169.0
69°	15555.7	15685.3	18737.6	25079.4	32003.0	36509.0	36581.5	34829.2	32339.0	28876.1	24958.6
70°	13175.4	13313.8	16157.4	22786.9	30411.0	36335.6	36465.2	34761.1	31596.8	26913.0	22141.3
72.5°	6910.5	7029.1	9947.4	15698.5	24791.7	33364.5	33757.6	31823.0	26783.4	19545.7	13092.0
75°	2171.7	2239.8	3884.6	8206.1	16974.3	25942.4	26032.4	24963.0	19018.7	10751.2	5452.4
77.5°	827.9	808.1	1293.4	3023.7	8581.6	16335.3	16886.4	15599.7	9980.4	3801.1	1258.2
80°	445.7	448.0	671.9	1251.6	3671.5	8394.9	8860.4	7560.5	3546.4	1185.8	289.9
82.5°	193.2	202.1	377.6	663.2	1686.5	3096.2	3329.0	2771.3	1354.8	797.1	107.6
85°	41.7	46.1	182.3	360.1	687.3	869.6	911.3	898.1	863.0	619.2	41.7
87.5°	0.0	0.0	81.2	129.6	173.5	197.7	173.5	226.2	476.5	417.2	22.0
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°	4692.7	4692.7	4692.7	4692.7	4692.7	4692.7	4692.7	4692.7	4692.7	4692.7	4692.7
2.5°	4697.0	4657.6	4589.5	4514.7	4462.1	4407.2	4363.3	4343.5	4321.5	4306.2	4325.9
5°	4688.3	4611.3	4479.6	4352.3	4260.1	4185.4	4123.9	4099.7	4075.6	4058.0	4055.9
7.5°	4765.1	4657.6	4455.5	4268.8	4126.1	4025.1	3941.7	3906.5	3877.9	3864.8	3853.8
10°	4912.2	4773.9	4503.8	4260.1	4075.6	3904.3	3724.2	3585.9	3495.9	3454.2	3438.8
12.5°	5103.3	4929.8	4596.0	4306.2	4038.3	3708.9	3326.8	2997.4	2784.4	2714.2	2672.4
15°	5327.2	5112.1	4716.8	4365.4	3902.2	3300.5	2652.7	2222.2	2024.6	1985.1	1941.2
17.5°	5542.4	5305.3	4861.7	4376.4	3603.5	2637.3	1943.4	1651.4	1574.5	1600.8	1607.4
20°	5731.3	5496.3	5004.5	4279.8	3061.1	1978.5	1504.2	1431.7	1460.3	1510.8	1519.5
22.5°	5922.3	5680.8	5136.2	4025.1	2367.2	1502.0	1354.8	1372.4	1401.0	1451.4	1460.3
25°	6155.1	5904.8	5259.1	3557.4	1776.5	1278.0	1286.8	1313.1	1341.7	1387.8	1392.2
27.5°	6423.0	6188.1	5340.5	2949.1	1317.6	1174.8	1203.4	1242.9	1271.5	1315.3	1324.1
30°	6778.8	6561.4	5366.7	2318.9	1104.5	1082.6	1095.8	1144.0	1185.8	1225.4	1231.9
32.5°	7112.6	6930.2	5279.0	1750.1	1023.3	996.9	996.9	1025.4	1073.8	1111.1	1119.9
35°	7420.0	7301.4	4997.8	1280.2	961.8	917.9	896.0	896.0	926.7	957.4	966.2
37.5°	7826.2	7821.8	4543.3	1021.1	902.5	852.0	805.9	770.8	759.8	766.4	770.8
40°	8522.3	8528.9	3950.4	915.7	852.0	783.9	713.7	649.9	590.7	570.9	568.7
42.5°	9609.3	9510.4	3329.0	865.2	808.1	713.7	608.3	522.6	430.4	401.9	399.6
45°	11335.3	10748.9	2670.2	819.1	762.0	634.6	502.8	386.5	311.8	289.9	289.9
47.5°	13849.5	12376.1	2068.5	768.5	700.5	544.6	379.9	278.9	228.4	217.4	219.6
50°	16449.5	13970.3	1585.4	704.9	625.8	450.1	281.0	202.1	173.5	173.5	175.7
52.5°	18755.2	15138.6	1236.3	636.8	533.6	353.5	213.0	158.1	144.9	142.7	144.9
55°	20913.8	15891.7	946.5	557.7	423.9	263.5	162.5	129.6	120.7	116.4	114.2
57.5°	22995.4	16265.0	709.3	450.1	307.4	191.1	129.6	109.8	101.0	94.5	92.2
60°	24381.1	15962.0	487.5	331.5	213.0	138.3	107.6	94.5	83.5	76.9	74.6
62.5°	25162.9	15134.1	314.0	239.3	151.6	103.2	85.6	79.1	63.7	57.1	57.1
65°	24846.6	13768.3	219.6	171.3	109.8	76.9	63.7	63.7	46.1	37.4	35.1
67.5°	22018.3	11631.7	166.9	127.3	79.1	57.1	48.3	54.9	28.5	17.6	17.6
69°	18944.0	9640.0	142.7	105.4	65.9	46.1	41.7	50.5	19.7	13.1	11.0
70°	16464.8	8315.8	129.6	92.2	54.9	39.5	37.4	48.3	19.7	11.0	8.8
72.5°	9850.8	4637.7	98.8	65.9	35.1	30.7	30.7	54.9	19.7	11.0	8.8
75°	3981.2	1633.7	72.5	46.1	26.4	26.4	37.4	70.2	17.6	8.8	6.6
77.5°	902.5	357.9	41.7	28.5	17.6	26.4	43.9	54.9	11.0	4.4	0.0
80°	219.6	87.8	26.4	17.6	11.0	19.7	33.0	30.7	2.2	0.0	0.0
82.5°	72.5	30.7	11.0	8.8	2.2	6.6	15.4	8.8	0.0	0.0	0.0
85°	30.7	17.6	4.4	2.2	0.0	0.0	2.2	0.0	0.0	0.0	0.0
87.5°	19.7	6.6	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)