

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: P193768

Luminaire Tested: **GLEON-AF-10-LED-E1-SL4-8030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-SL4-8030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1200mA 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: 42803 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 640
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: 25 FT

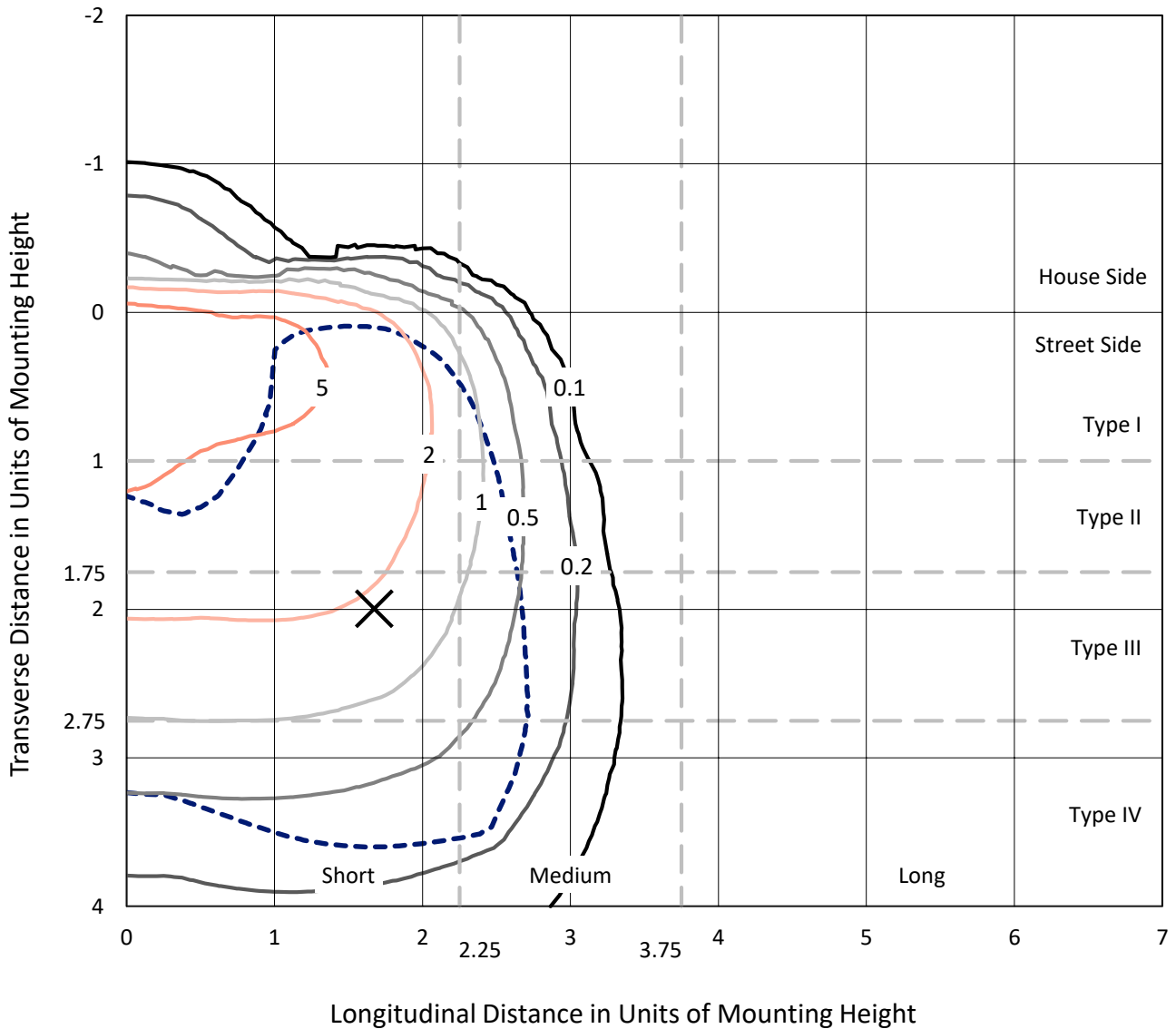


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

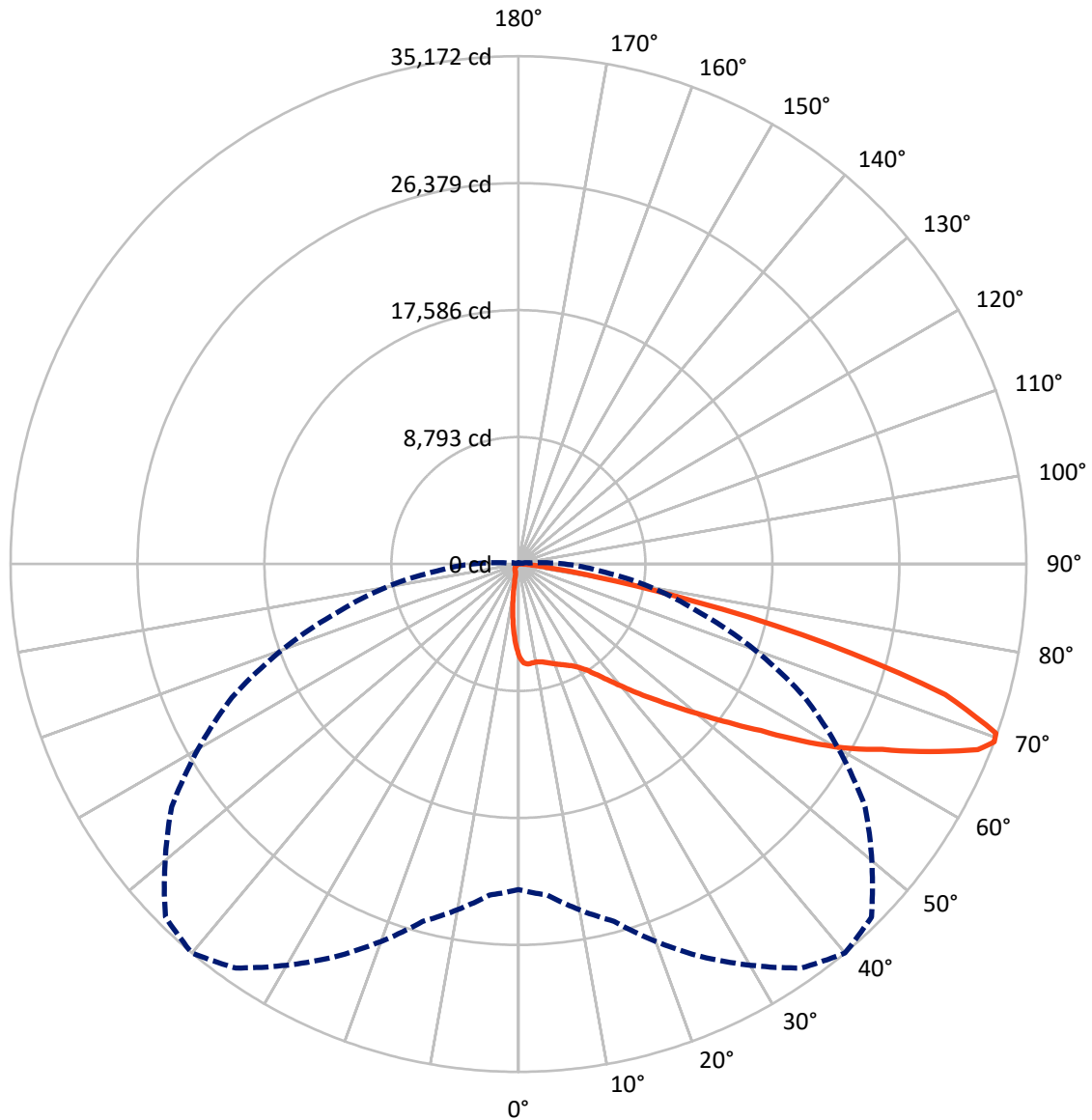


Based on 30 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2504.2	0.0	2504.2
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	40298.8	0.0	40298.8
	% Fixture	94.1	0.0	94.1
Total	Lumens	42803.0	0.0	42803.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.5	1.2
10°-20°	1275.1	3.0
20°-30°	2147.7	5.0
30°-40°	3515.9	8.2
40°-50°	6087.6	14.2
50°-60°	9588.6	22.4
60°-70°	12522.4	29.3
70°-80°	6449.6	15.1
80°-90°	697.7	1.6
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°	42803.0	100.0
0°-180°	42803.0	100.0



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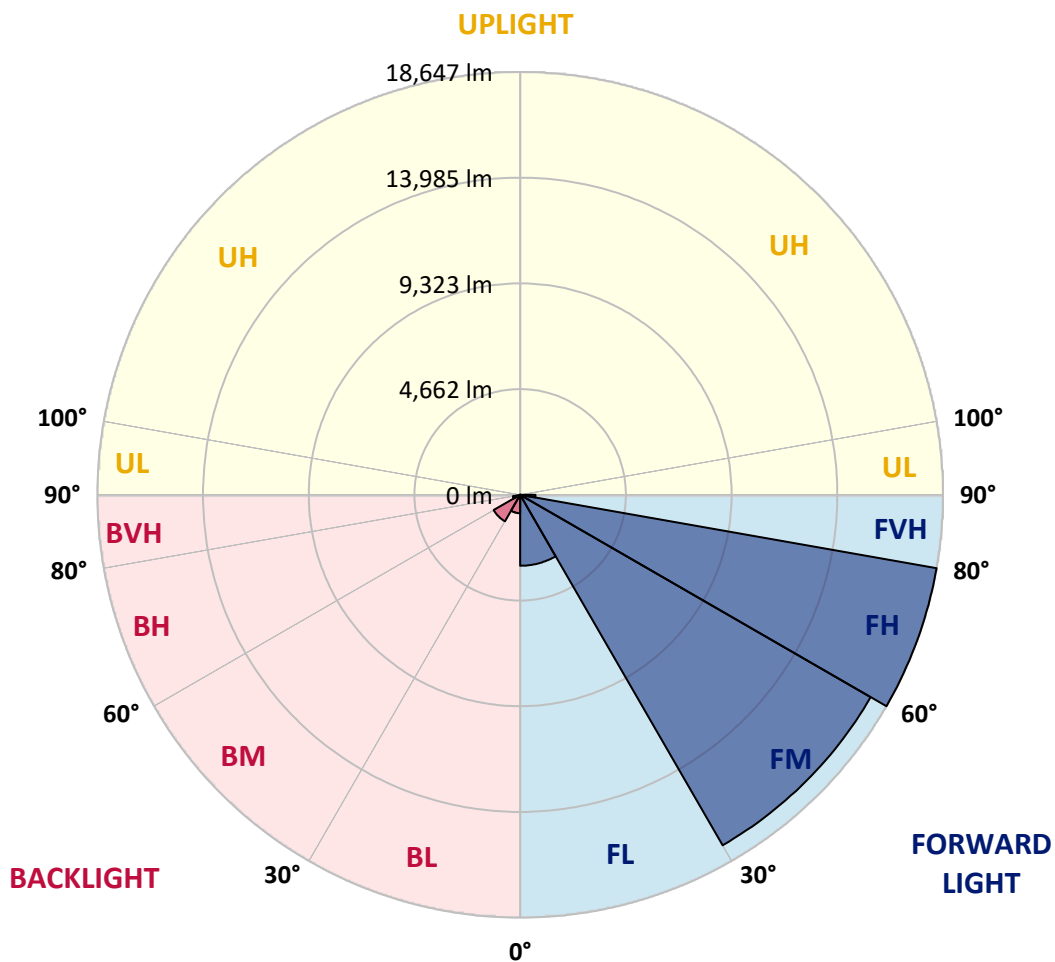
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3130.1	7.3			
FM (30°-60°)	17846.2	41.7			
FH (60°-80°)	18646.7	43.6			G5
FVH (80°-90°)	675.8	1.6			G4/750
BL (0°-30°)	811.2	1.9	B2/1000		
BM (30°-60°)	1346.0	3.1	B2/2500		
BH (60°-80°)	325.2	0.8	B1/500		G1/500
BVH (80°-90°)	21.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	6395.0	6395.0	6395.0	6395.0	6395.0	6395.0	6395.0	6395.0	6395.0	6395.0	6395.0
2.5°	7021.7	6983.5	6960.6	6930.0	6891.8	6858.7	6845.9	6751.7	6662.5	6540.2	6400.1
5°	7151.7	7138.9	7098.2	7057.4	7011.6	6960.6	6932.6	6820.5	6693.1	6514.7	6270.1
7.5°	7164.4	7149.1	7098.2	7042.1	6978.4	6917.3	6868.9	6756.8	6639.6	6458.7	6160.6
10°	7144.0	7126.2	7088.0	7026.8	6947.9	6889.3	6840.9	6733.8	6634.5	6471.4	6140.2
12.5°	7121.1	7103.3	7085.4	7054.9	6986.1	6945.3	6904.5	6802.6	6713.5	6575.9	6214.1
15°	7144.0	7133.9	7154.2	7141.5	7103.3	7067.6	7026.8	6935.1	6853.6	6738.9	6349.1
17.5°	7240.9	7240.9	7304.6	7312.2	7276.5	7225.6	7167.0	7075.3	7006.5	6909.6	6509.6
20°	7467.6	7460.0	7541.5	7556.8	7470.2	7391.2	7304.6	7192.5	7138.9	7077.8	6667.6
22.5°	7857.4	7821.8	7870.2	7854.9	7684.2	7561.9	7454.9	7317.3	7289.3	7261.2	6843.4
25°	8364.4	8344.1	8377.2	8226.9	7926.2	7760.6	7633.2	7477.8	7477.8	7505.8	7042.1
27.5°	9100.8	9024.3	8912.2	8647.2	8196.3	7984.8	7847.2	7681.6	7724.9	7829.4	7304.6
30°	9854.9	9770.8	9513.5	9105.9	8525.0	8303.3	8142.8	7969.5	8071.4	8262.5	7656.2
32.5°	10598.9	10504.6	10140.3	9625.6	8996.3	8774.6	8619.2	8428.1	8598.8	8919.9	8170.8
35°	11319.9	11235.8	10815.4	10209.1	9623.1	9439.6	9296.9	9131.3	9350.4	9798.9	8896.9
37.5°	12130.1	12038.4	11526.3	10868.9	10384.8	10252.4	10147.9	9982.3	10364.5	11021.8	9908.4
40°	13126.3	12970.9	12280.4	11625.6	11266.4	11202.7	11131.4	11108.4	11702.1	12611.6	11256.2
42.5°	14267.7	14012.9	13070.2	12423.1	12234.6	12280.4	12262.6	12364.5	13376.0	14588.7	12897.0
45°	15409.1	15080.5	13949.2	13274.1	13299.5	13460.0	13559.4	13967.1	15472.8	16856.3	14662.6
47.5°	16377.3	16053.7	14792.6	14193.8	14499.6	14815.5	15085.5	15857.5	17628.3	19088.1	16035.9
50°	17205.3	16899.6	15686.8	15205.3	15893.2	16402.8	16841.0	17984.9	19946.8	20787.5	16998.9
52.5°	17883.0	17679.2	16614.2	16364.5	17485.6	18232.1	18874.1	20244.9	22000.3	22168.4	17748.0
55°	18542.9	18397.7	17610.4	17742.9	19355.7	20372.2	21185.0	22642.3	23768.5	23320.1	18466.5
57.5°	19302.2	19169.7	18746.7	19490.7	21814.3	23093.3	23979.9	24767.2	25325.2	24497.1	19144.2
60°	20076.7	20000.3	20010.5	21432.1	24637.3	25865.3	26354.5	26558.3	26853.9	25605.4	19182.4
62.5°	20815.6	20960.8	21455.1	23592.7	27340.5	28283.2	28530.3	28731.6	28385.1	25781.2	17722.5
65°	22066.5	22303.5	23483.1	26484.4	30313.8	31322.7	31577.5	30887.0	28627.1	23508.6	14415.5
67.5°	22678.0	23111.1	25215.6	29180.0	33197.9	34318.9	34224.7	31027.2	25689.5	17926.3	9251.1
69°	22550.6	23011.8	25615.6	30005.5	34155.9	35172.4	34573.7	29312.5	21885.6	12986.2	5679.1
70°	22046.1	22512.4	25409.3	29974.9	34278.2	35083.3	33926.6	27195.3	18504.7	9495.7	3551.6
72.5°	18410.4	18813.0	22558.3	27093.3	31577.5	30922.7	28382.5	18841.0	9016.7	2586.0	800.0
75°	11332.6	11556.8	16186.2	20410.5	23850.0	22168.4	18909.8	9373.4	2687.9	731.2	443.3
77.5°	5987.3	6089.3	8861.3	12030.7	15118.7	12509.7	9691.8	3656.1	1238.2	458.6	321.0
80°	3538.9	3615.3	4772.0	5500.7	6542.8	5465.0	3875.2	2244.6	886.6	287.9	285.4
82.5°	2025.5	2073.9	3459.9	3057.4	2578.4	2201.3	1928.7	2127.4	532.5	193.6	295.5
85°	744.0	754.2	1946.5	2326.1	1533.8	912.1	958.0	1763.1	142.7	122.3	231.9
87.5°	346.5	338.9	1001.3	1424.2	896.8	578.4	746.5	387.3	56.1	79.0	63.7
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°	6395.0	6395.0	6395.0	6395.0	6395.0	6395.0	6395.0	6395.0	6395.0	6395.0	6395.0
2.5°	6318.6	6224.3	6053.6	5877.8	5699.4	5561.9	5426.8	5319.8	5284.1	5217.9	5223.0
5°	6124.9	5951.7	5595.0	5233.2	4856.1	4545.3	4252.3	4015.3	3900.7	3783.5	3783.5
7.5°	5956.8	5704.5	5146.6	4558.0	3949.1	3437.0	2975.8	2629.3	2438.2	2285.4	2282.8
10°	5893.1	5551.7	4772.0	3928.7	3080.3	2382.2	1834.4	1482.8	1301.9	1184.7	1179.6
12.5°	5921.1	5498.2	4484.1	3347.8	2282.8	1531.2	1062.4	835.7	759.2	723.6	723.6
15°	6002.6	5482.9	4196.2	2779.7	1612.8	958.0	705.7	644.6	639.5	639.5	639.5
17.5°	6102.0	5488.0	3900.7	2226.8	1098.1	685.4	608.9	601.3	606.4	606.4	606.4
20°	6203.9	5490.5	3582.2	1714.7	774.5	596.2	573.3	570.7	575.8	575.8	578.4
22.5°	6328.7	5503.3	3263.7	1281.5	639.5	563.1	545.2	545.2	547.8	547.8	545.2
25°	6471.4	5528.7	2932.5	950.3	583.4	540.1	524.8	522.3	524.8	522.3	519.8
27.5°	6649.8	5564.4	2563.1	744.0	558.0	517.2	504.5	504.5	501.9	499.4	496.8
30°	6874.0	5605.2	2147.8	631.9	532.5	496.8	484.1	481.5	479.0	473.9	473.9
32.5°	7215.4	5694.3	1737.6	573.3	504.5	468.8	458.6	458.6	453.5	448.4	445.9
35°	7740.2	5870.1	1370.7	537.6	473.9	438.2	425.5	425.5	420.4	417.8	415.3
37.5°	8466.4	6137.7	1065.0	504.5	443.3	405.1	392.4	389.8	384.7	379.6	377.1
40°	9432.0	6468.9	838.2	473.9	412.7	372.0	361.8	356.7	346.5	338.9	338.9
42.5°	10644.7	6845.9	680.3	440.8	377.1	341.4	333.8	326.1	308.3	300.6	298.1
45°	11913.5	7184.8	575.8	402.6	341.4	310.8	305.7	293.0	270.1	262.4	262.4
47.5°	12828.2	7263.8	507.0	366.9	308.3	277.7	275.2	252.2	231.9	226.8	224.2
50°	13398.9	7108.4	451.0	331.2	277.7	247.1	239.5	211.5	198.7	193.6	191.1
52.5°	13783.6	6830.7	405.1	300.6	249.7	219.1	201.3	180.9	170.7	165.6	165.6
55°	14091.9	6438.3	359.2	272.6	226.8	196.2	170.7	155.4	145.2	140.1	140.1
57.5°	14178.5	5905.8	313.4	249.7	203.8	173.3	145.2	135.0	122.3	119.7	119.7
60°	13549.2	4945.3	277.7	221.7	183.4	150.3	127.4	114.7	101.9	99.4	96.8
62.5°	11890.6	3826.8	244.6	196.2	160.5	129.9	109.6	94.3	84.1	84.1	84.1
65°	9070.2	2565.6	214.0	170.7	140.1	109.6	94.3	76.4	71.3	71.3	73.9
67.5°	5429.4	1396.2	183.4	145.2	119.7	91.7	79.0	66.2	63.7	66.2	66.2
69°	3182.2	820.4	165.6	129.9	104.5	81.5	68.8	58.6	63.7	66.2	66.2
70°	1964.4	552.9	152.9	117.2	94.3	73.9	63.7	56.1	61.1	63.7	63.7
72.5°	547.8	285.4	122.3	91.7	76.4	61.1	51.0	51.0	58.6	61.1	61.1
75°	356.7	211.5	94.3	68.8	58.6	48.4	43.3	48.4	56.1	58.6	58.6
77.5°	295.5	173.3	76.4	56.1	48.4	45.9	40.8	43.3	51.0	53.5	53.5
80°	270.1	122.3	61.1	51.0	43.3	40.8	38.2	35.7	45.9	48.4	48.4
82.5°	257.3	96.8	53.5	45.9	40.8	35.7	33.1	35.7	40.8	43.3	45.9
85°	160.5	63.7	48.4	43.3	35.7	33.1	33.1	33.1	38.2	40.8	40.8
87.5°	58.6	51.0	43.3	35.7	30.6	30.6	30.6	30.6	33.1	38.2	38.2
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)