

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: P194568

Luminaire Tested: **GLEON-AF-10-LED-E1-SL4-7060-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194568  
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-SL4-7060-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 5700K, 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: 52455 lumens  
Efficiency: N/A  
Efficacy: 82.0 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

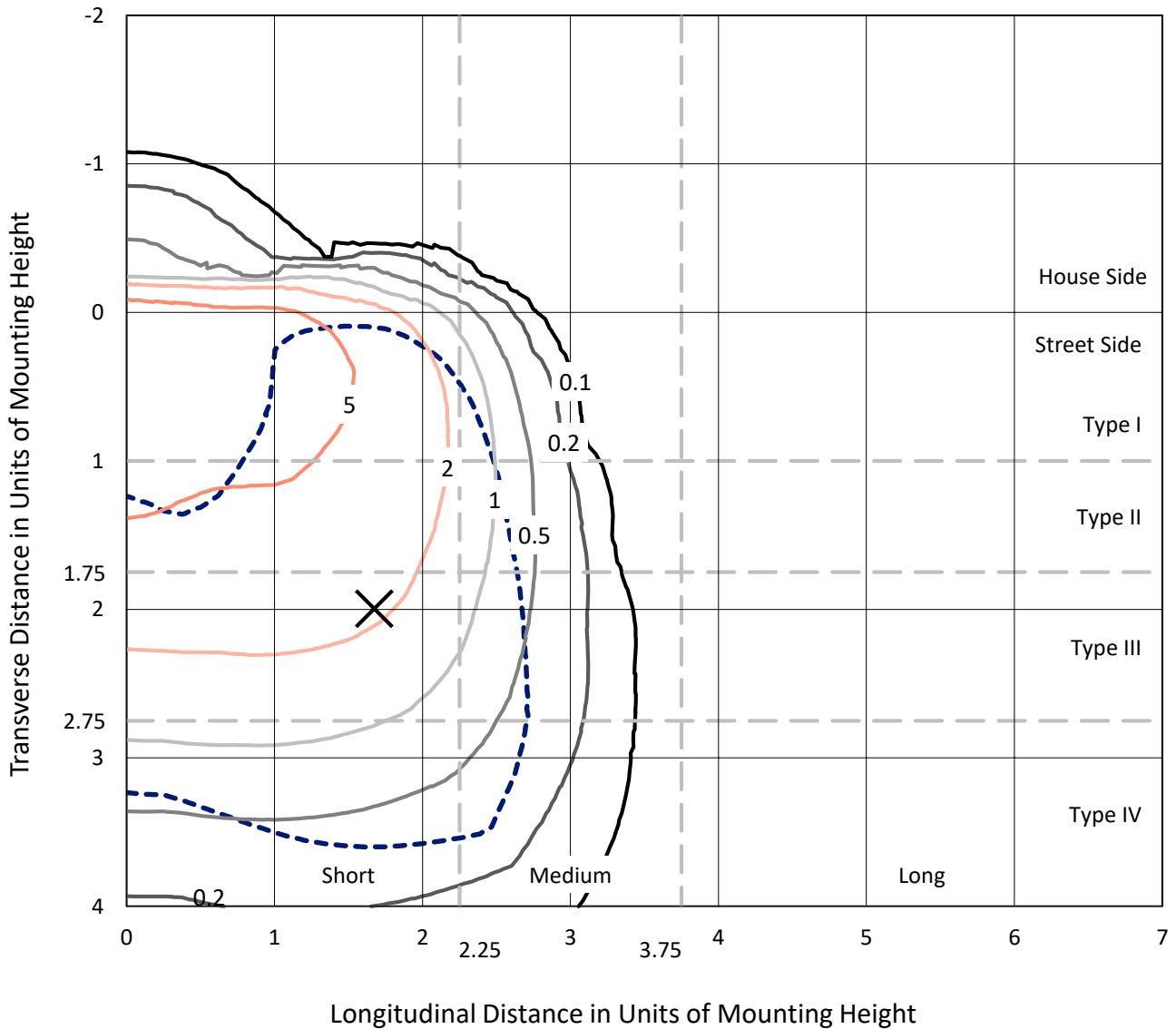


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

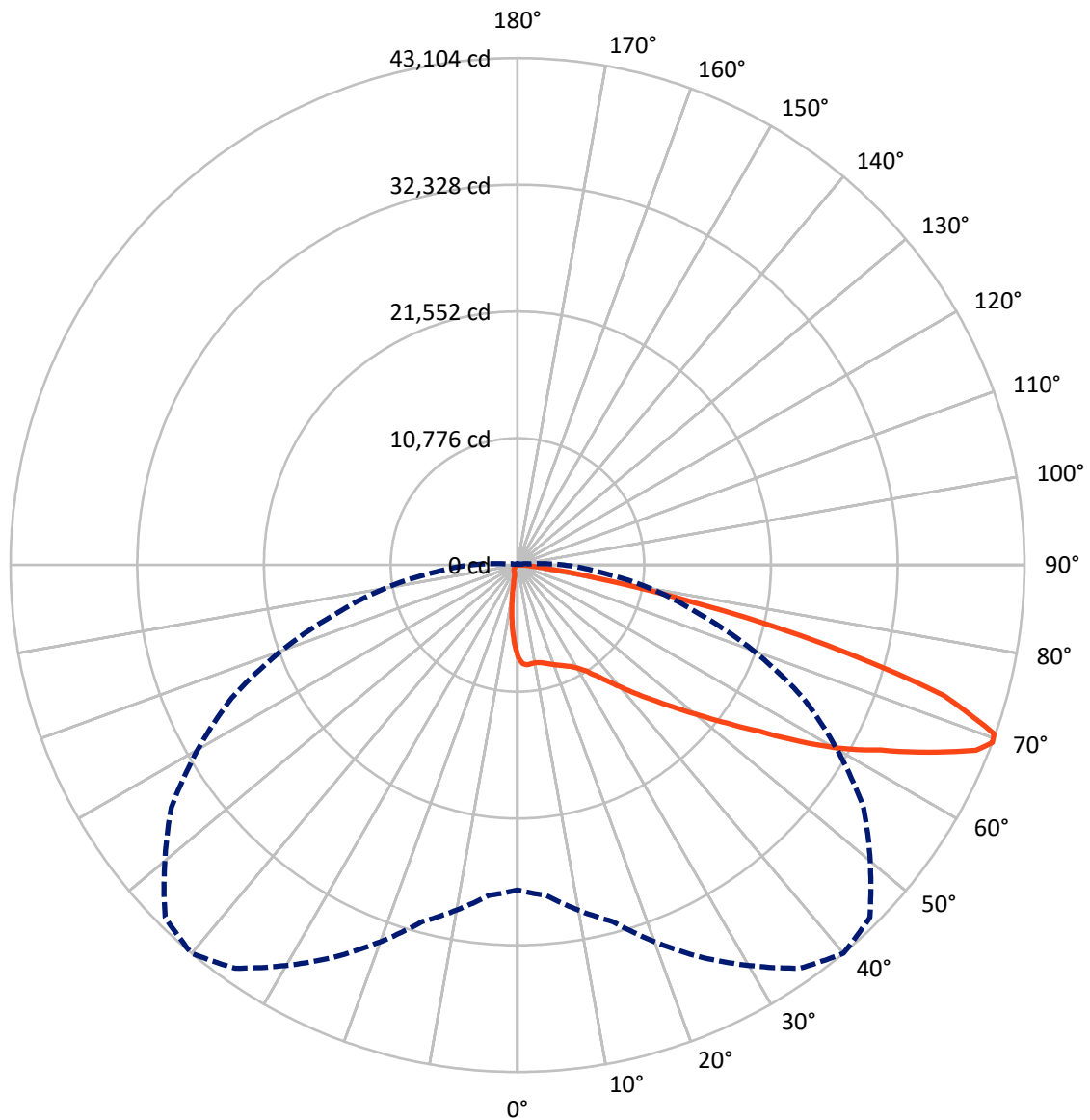


Based on 30 foot mounting height. Maximum calculated value = 9.5 fc  
 Type IV - Short - Semi-Cutoff

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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
<b>House Side</b>	Lumens	3068.9	0.0	3068.9
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	49386.1	0.0	49386.1
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	52455.0	0.0	52455.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	635.4	1.2
10°-20°	1562.6	3.0
20°-30°	2632.0	5.0
30°-40°	4308.7	8.2
40°-50°	7460.4	14.2
50°-60°	11750.8	22.4
60°-70°	15346.1	29.3
70°-80°	7903.9	15.1
80°-90°	855.0	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°	52455.0	100.0
0°-180°	52455.0	100.0

**Coefficient of Utilization**



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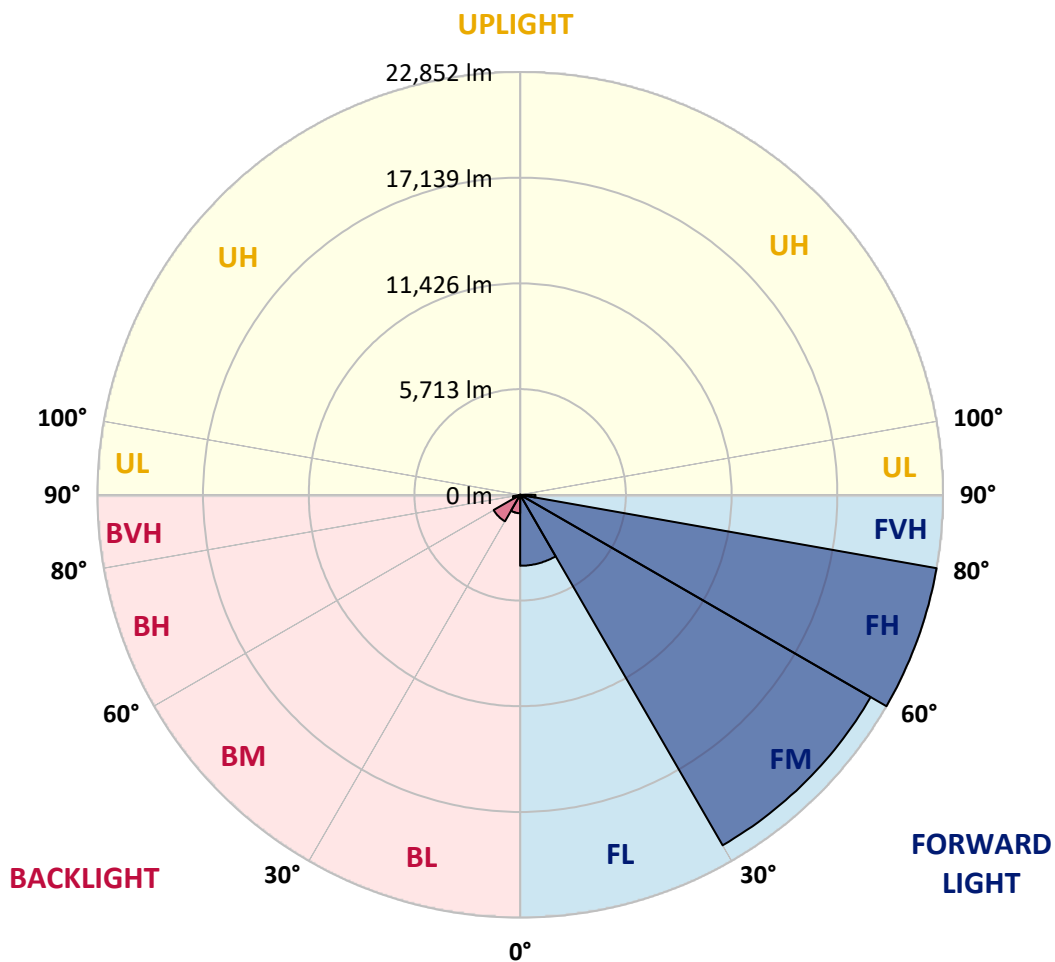
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3836.0	7.3			
FM (30°-60°)	21870.4	41.7			
FH (60°-80°)	22851.6	43.6			G5
FVH (80°-90°)	828.1	1.6			G5
BL (0°-30°)	994.1	1.9	B2/1000		
BM (30°-60°)	1649.5	3.1	B2/2500		
BH (60°-80°)	398.5	0.8	B1/500		G1/500
BVH (80°-90°)	26.8	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°	7837.0	7837.0	7837.0	7837.0	7837.0	7837.0	7837.0	7837.0	7837.0	7837.0	7837.0
2.5°	8605.1	8558.3	8530.2	8492.7	8445.9	8405.3	8389.7	8274.2	8164.9	8015.0	7843.3
5°	8764.4	8748.8	8698.8	8648.9	8592.7	8530.2	8495.9	8358.5	8202.4	7983.8	7684.1
7.5°	8780.0	8761.3	8698.8	8630.1	8552.1	8477.1	8417.8	8280.4	8136.8	7915.1	7549.8
10°	8755.0	8733.2	8686.3	8611.4	8514.6	8442.8	8383.5	8252.3	8130.5	7930.7	7524.8
12.5°	8726.9	8705.1	8683.2	8645.7	8561.4	8511.5	8461.5	8336.6	8227.3	8058.7	7615.4
15°	8755.0	8742.5	8767.5	8751.9	8705.1	8661.3	8611.4	8499.0	8399.1	8258.6	7780.8
17.5°	8873.7	8873.7	8951.7	8961.1	8917.4	8854.9	8783.1	8670.7	8586.4	8467.8	7977.6
20°	9151.5	9142.2	9242.1	9260.8	9154.7	9057.9	8951.7	8814.3	8748.8	8673.8	8171.1
22.5°	9629.3	9585.6	9644.9	9626.1	9416.9	9267.1	9135.9	8967.3	8933.0	8898.6	8386.6
25°	10250.6	10225.6	10266.2	10082.0	9713.6	9510.6	9354.5	9164.0	9164.0	9198.4	8630.1
27.5°	11153.0	11059.3	10921.9	10597.2	10044.5	9785.4	9616.8	9413.8	9466.9	9594.9	8951.7
30°	12077.2	11974.1	11658.8	11159.2	10447.3	10175.7	9979.0	9766.6	9891.5	10125.7	9382.6
32.5°	12988.9	12873.4	12426.9	11796.2	11024.9	10753.3	10562.8	10328.7	10537.9	10931.3	10013.3
35°	13872.5	13769.5	13254.3	12511.2	11793.0	11568.2	11393.4	11190.4	11458.9	12008.5	10903.2
37.5°	14865.4	14753.0	14125.4	13319.9	12726.6	12564.3	12436.2	12233.3	12701.6	13507.2	12142.7
40°	16086.2	15895.8	15049.6	14247.2	13806.9	13728.9	13641.5	13613.4	14340.9	15455.5	13794.5
42.5°	17485.0	17172.8	16017.5	15224.5	14993.4	15049.6	15027.8	15152.7	16392.2	17878.5	15805.2
45°	18883.8	18481.1	17094.8	16267.3	16298.6	16495.3	16617.0	17116.6	18961.9	20657.3	17969.0
47.5°	20070.3	19673.8	18128.2	17394.5	17769.2	18156.3	18487.3	19433.4	21603.4	23392.5	19651.9
50°	21085.1	20710.4	19224.2	18634.1	19477.1	20101.6	20638.6	22040.5	24444.7	25475.1	20832.2
52.5°	21915.6	21665.8	20360.7	20054.7	21428.5	22343.4	23130.2	24810.0	26961.3	27167.4	21750.1
55°	22724.3	22546.3	21581.5	21743.9	23720.3	24966.1	25962.2	27748.1	29128.2	28578.7	22630.6
57.5°	23654.8	23492.4	22974.1	23885.8	26733.4	28300.8	29387.4	30352.2	31036.0	30021.2	23461.2
60°	24604.0	24510.3	24522.8	26265.0	30192.9	31697.9	32297.4	32547.2	32909.4	31379.4	23508.0
62.5°	25509.4	25687.4	26293.1	28912.8	33505.7	34661.0	34963.8	35210.5	34785.9	31594.9	21718.9
65°	27042.5	27332.9	28778.5	32456.6	37149.5	38385.9	38698.2	37852.0	35082.5	28809.7	17666.1
67.5°	27791.9	28322.6	30901.7	35760.0	40684.0	42057.8	41942.3	38023.7	31482.4	21968.7	11337.2
69°	27635.7	28200.9	31391.9	36771.7	41857.9	43103.8	42370.0	35922.4	26820.8	15914.5	6959.7
70°	27017.5	27588.9	31139.0	36734.2	42007.8	42994.5	41576.9	33327.7	22677.5	11636.9	4352.5
72.5°	22562.0	23055.3	27645.1	33202.9	38698.2	37895.7	34782.7	23089.6	11049.9	3169.2	980.4
75°	13888.1	14162.9	19836.2	25013.0	29228.1	27167.4	23173.9	11487.0	3294.1	896.1	543.3
77.5°	7337.5	7462.4	10859.5	14743.6	18527.9	15330.6	11877.3	4480.5	1517.5	562.0	393.4
80°	4336.9	4430.6	5848.1	6741.1	8018.1	6697.4	4749.1	2750.8	1086.6	352.8	349.7
82.5°	2482.3	2541.6	4240.1	3746.8	3159.8	2697.7	2363.6	2607.1	652.6	237.3	362.2
85°	911.7	924.2	2385.5	2850.7	1879.6	1117.8	1174.0	2160.7	174.9	149.9	284.1
87.5°	424.6	415.3	1227.1	1745.4	1099.1	708.8	914.8	474.6	68.7	96.8	78.1
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°	7837.0	7837.0	7837.0	7837.0	7837.0	7837.0	7837.0	7837.0	7837.0	7837.0	7837.0
2.5°	7743.4	7627.9	7418.7	7203.2	6984.7	6816.0	6650.6	6519.4	6475.7	6394.5	6400.8
5°	7506.1	7293.8	6856.6	6413.3	5951.2	5570.2	5211.2	4920.8	4780.3	4636.7	4636.7
7.5°	7300.0	6990.9	6307.1	5585.8	4839.6	4212.0	3646.9	3222.2	2988.1	2800.7	2797.6
10°	7221.9	6803.6	5848.1	4814.6	3774.9	2919.4	2248.1	1817.2	1595.5	1451.9	1445.6
12.5°	7256.3	6738.0	5495.3	4102.7	2797.6	1876.5	1302.0	1024.1	930.5	886.7	886.7
15°	7356.2	6719.3	5142.5	3406.5	1976.4	1174.0	864.9	789.9	783.7	783.7	783.7
17.5°	7478.0	6725.5	4780.3	2728.9	1345.7	839.9	746.2	736.9	743.1	743.1	743.1
20°	7602.9	6728.6	4390.0	2101.3	949.2	730.6	702.5	699.4	705.6	705.6	708.8
22.5°	7755.9	6744.2	3999.7	1570.5	783.7	690.0	668.2	668.2	671.3	671.3	668.2
25°	7930.7	6775.5	3593.8	1164.6	715.0	661.9	643.2	640.1	643.2	640.1	637.0
27.5°	8149.3	6819.2	3141.1	911.7	683.8	633.8	618.2	618.2	615.1	612.0	608.9
30°	8424.0	6869.1	2632.1	774.3	652.6	608.9	593.2	590.1	587.0	580.8	580.8
32.5°	8842.4	6978.4	2129.4	702.5	618.2	574.5	562.0	562.0	555.8	549.5	546.4
35°	9485.6	7193.8	1679.8	658.8	580.8	537.0	521.4	521.4	515.2	512.1	508.9
37.5°	10375.5	7521.7	1305.1	618.2	543.3	496.5	480.8	477.7	471.5	465.2	462.1
40°	11558.9	7927.6	1027.2	580.8	505.8	455.9	443.4	437.1	424.6	415.3	415.3
42.5°	13045.1	8389.7	833.7	540.2	462.1	418.4	409.0	399.7	377.8	368.4	365.3
45°	14600.0	8805.0	705.6	493.3	418.4	380.9	374.7	359.1	331.0	321.6	321.6
47.5°	15720.9	8901.8	621.3	449.6	377.8	340.3	337.2	309.1	284.1	277.9	274.8
50°	16420.3	8711.3	552.7	405.9	340.3	302.9	293.5	259.2	243.5	237.3	234.2
52.5°	16891.8	8371.0	496.5	368.4	306.0	268.5	246.7	221.7	209.2	203.0	203.0
55°	17269.6	7890.1	440.2	334.1	277.9	240.4	209.2	190.5	178.0	171.7	171.7
57.5°	17375.8	7237.6	384.0	306.0	249.8	212.3	178.0	165.5	149.9	146.7	146.7
60°	16604.5	6060.4	340.3	271.6	224.8	184.2	156.1	140.5	124.9	121.8	118.6
62.5°	14571.9	4689.7	299.7	240.4	196.7	159.2	134.3	115.5	103.0	103.0	103.0
65°	11115.5	3144.2	262.3	209.2	171.7	134.3	115.5	93.7	87.4	87.4	90.5
67.5°	6653.7	1711.0	224.8	178.0	146.7	112.4	96.8	81.2	78.1	81.2	81.2
69°	3899.8	1005.4	203.0	159.2	128.0	99.9	84.3	71.8	78.1	81.2	81.2
70°	2407.3	677.5	187.3	143.6	115.5	90.5	78.1	68.7	74.9	78.1	78.1
72.5°	671.3	349.7	149.9	112.4	93.7	74.9	62.4	62.4	71.8	74.9	74.9
75°	437.1	259.2	115.5	84.3	71.8	59.3	53.1	59.3	68.7	71.8	71.8
77.5°	362.2	212.3	93.7	68.7	59.3	56.2	50.0	53.1	62.4	65.6	65.6
80°	331.0	149.9	74.9	62.4	53.1	50.0	46.8	43.7	56.2	59.3	59.3
82.5°	315.4	118.6	65.6	56.2	50.0	43.7	40.6	43.7	50.0	53.1	56.2
85°	196.7	78.1	59.3	53.1	43.7	40.6	40.6	40.6	46.8	50.0	50.0
87.5°	71.8	62.4	53.1	43.7	37.5	37.5	37.5	37.5	40.6	46.8	46.8
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)