

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: P191944

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-7050-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-SL3-7050-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1200mA 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: 33365 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 382
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

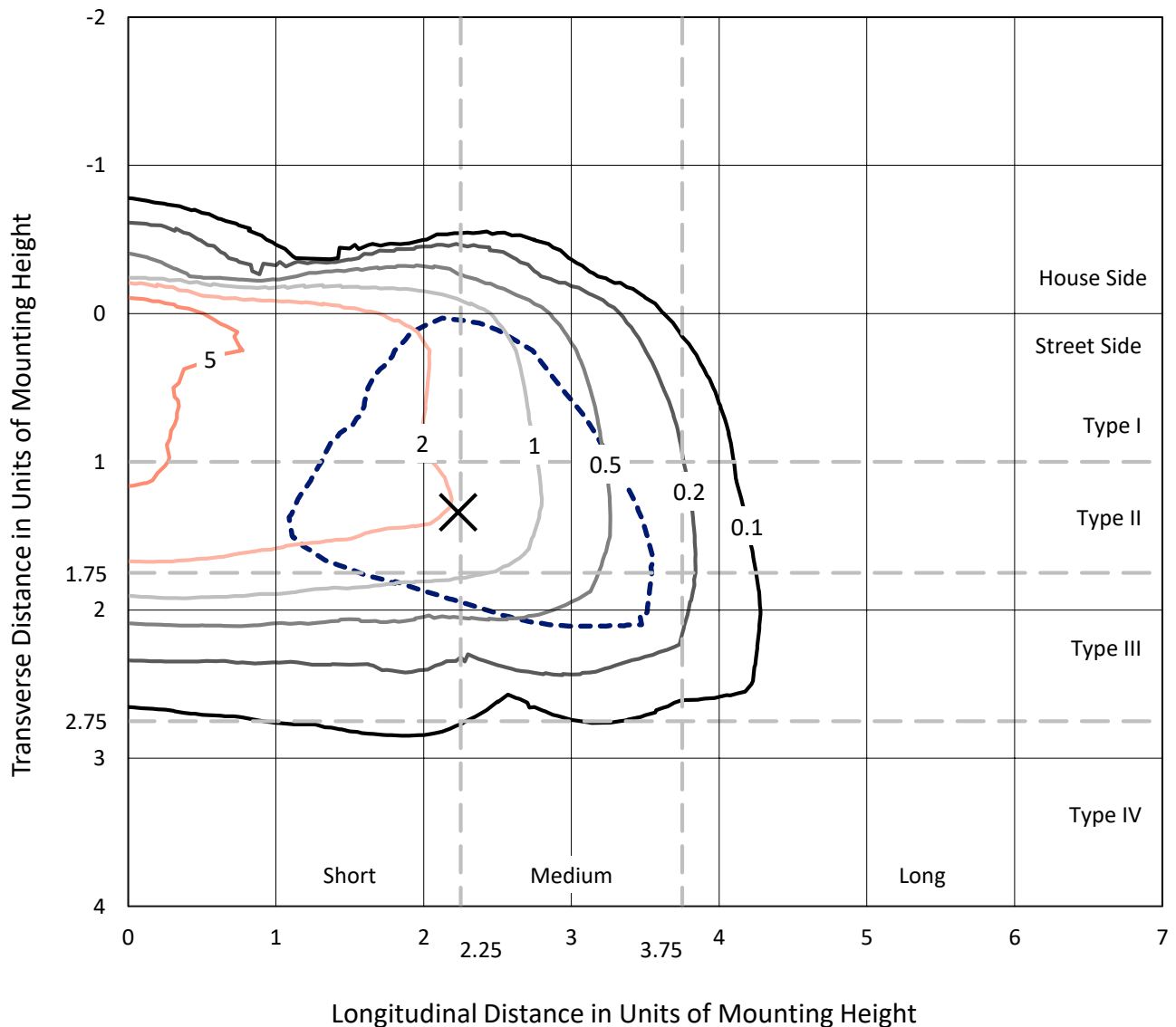


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

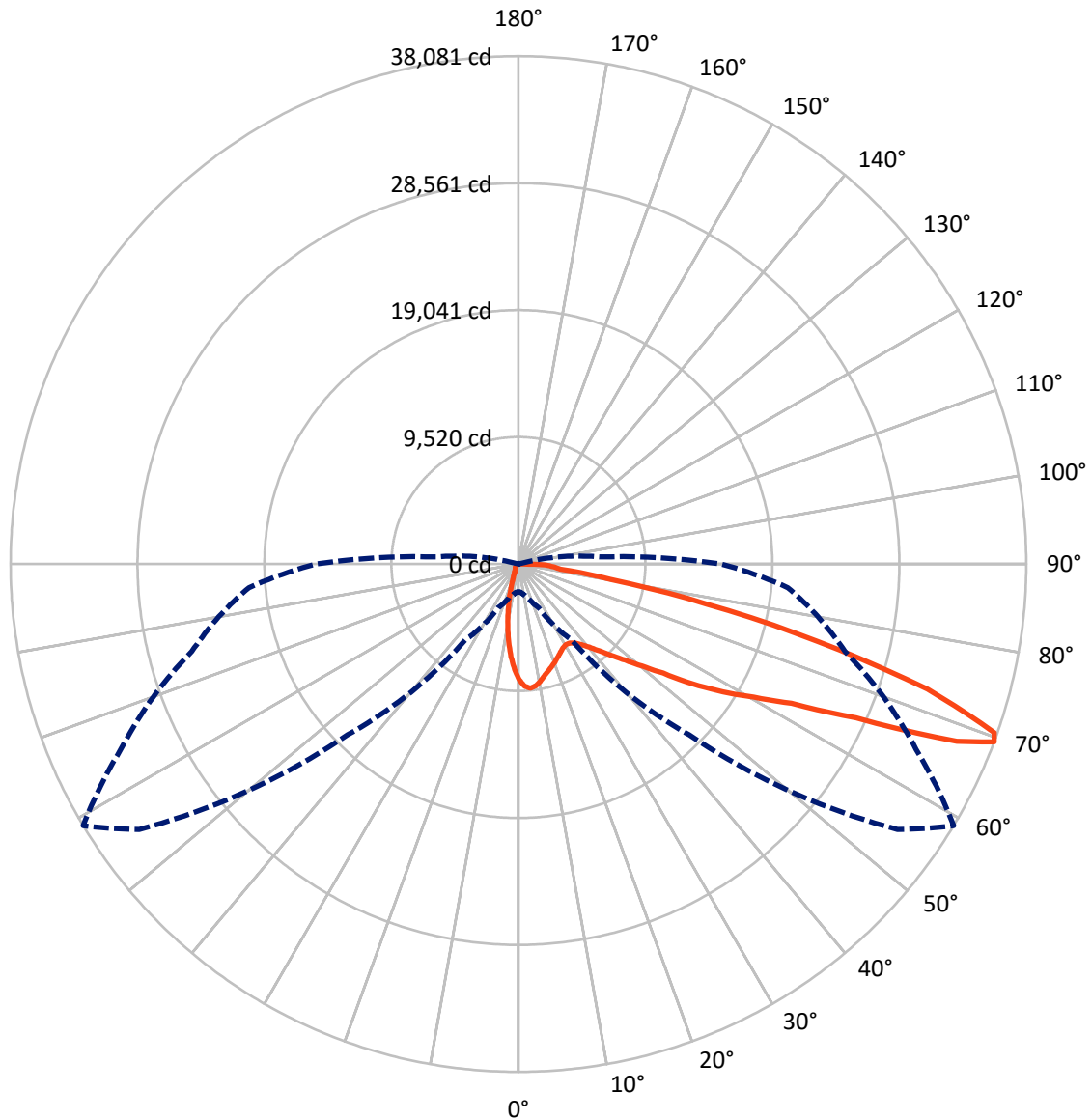


Based on 30 foot mounting height. Maximum calculated value = 9.7 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2717.1	0.0	2717.1
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	30647.9	0.0	30647.9
	% Fixture	91.9	0.0	91.9
Total	Lumens	33365.0	0.0	33365.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	704.9	2.1
10°-20°	1456.6	4.4
20°-30°	1960.0	5.9
30°-40°	2845.8	8.5
40°-50°	4738.4	14.2
50°-60°	7391.9	22.2
60°-70°	9146.9	27.4
70°-80°	4635.5	13.9
80°-90°	485.0	1.5
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°	33365.0	100.0
0°-180°	33365.0	100.0



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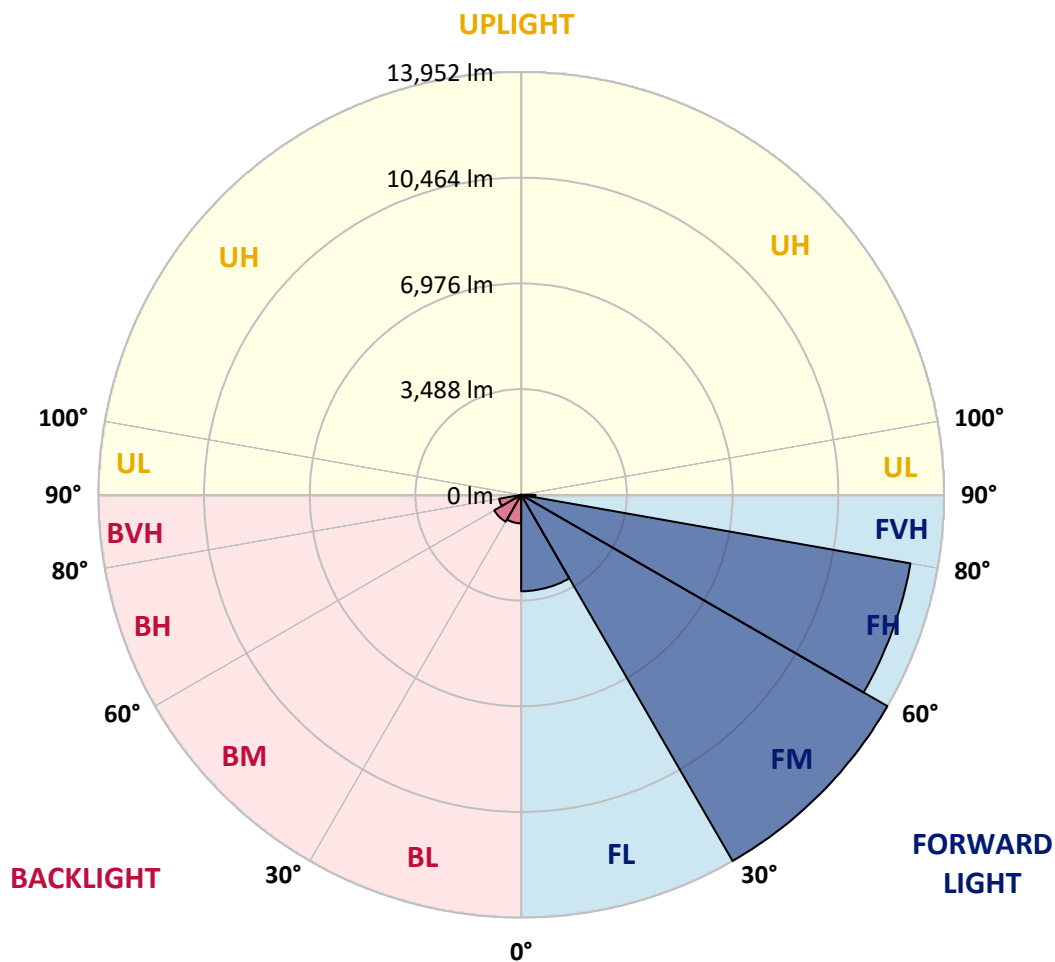
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3181.0	9.5			
FM (30°-60°)	13952.3	41.8			
FH (60°-80°)	13044.5	39.1			G5
FVH (80°-90°)	470.1	1.4			G3/500
BL (0°-30°)	940.5	2.8	B2/1000		
BM (30°-60°)	1023.8	3.1	B2/2500		
BH (60°-80°)	737.9	2.2	B2/1000		G2/1000
BVH (80°-90°)	14.9	0.0			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	8684.4	8684.4	8684.4	8684.4	8684.4	8684.4	8684.4	8684.4	8684.4	8684.4	8684.4
2.5°	9518.4	9514.6	9473.1	9454.2	9420.3	9348.6	9237.2	9178.8	9084.4	8920.3	8699.5
5°	9431.6	9476.9	9501.4	9503.3	9527.8	9501.4	9401.4	9352.3	9222.2	8958.0	8561.8
7.5°	8842.9	8859.9	8929.7	8990.1	9107.1	9218.4	9254.2	9233.5	9156.1	8873.1	8346.7
10°	8212.8	8229.8	8312.8	8392.0	8550.5	8722.2	8903.3	8941.0	8973.1	8752.4	8139.2
12.5°	7669.4	7686.4	7771.3	7875.1	8060.0	8271.3	8552.4	8614.6	8756.1	8637.3	7973.2
15°	7201.5	7209.1	7292.1	7420.4	7641.1	7912.8	8231.6	8331.6	8548.6	8556.2	7827.9
17.5°	6803.4	6822.3	6873.2	6995.9	7237.4	7573.2	7944.9	8088.3	8343.0	8488.2	7686.4
20°	6560.0	6578.9	6577.0	6644.9	6861.9	7220.4	7658.1	7829.8	8139.2	8418.4	7560.0
22.5°	6512.9	6512.9	6463.8	6454.4	6582.7	6882.7	7360.0	7569.4	7956.2	8388.2	7471.3
25°	6680.8	6673.2	6550.6	6450.6	6456.3	6635.5	7071.3	7320.4	7801.5	8409.0	7424.1
27.5°	7035.5	7026.0	6871.3	6680.8	6528.0	6526.1	6852.5	7120.4	7678.8	8507.1	7443.0
30°	7526.0	7522.2	7354.3	7114.7	6837.4	6582.7	6777.0	7020.4	7599.6	8684.4	7486.4
32.5°	8061.8	8056.2	7929.8	7677.0	7326.0	6837.4	6856.2	7060.0	7622.2	8920.3	7592.1
35°	8629.7	8620.3	8565.6	8344.8	7958.1	7307.2	7116.6	7275.1	7765.6	9273.1	7799.6
37.5°	9244.8	9254.2	9293.9	9082.5	8676.9	7965.6	7552.4	7660.0	8054.3	9752.3	8137.3
40°	10152.3	10150.4	10163.6	9886.3	9495.7	8771.2	8161.8	8195.8	8537.3	10388.1	8650.5
42.5°	11799.4	11684.3	11335.3	10769.2	10376.8	9691.9	8929.7	8893.9	9127.8	11174.9	9369.3
45°	14012.5	13767.2	12861.6	11776.7	11274.9	10729.6	9875.0	9759.9	9908.9	12120.1	10256.1
47.5°	15916.1	15661.4	14380.4	12825.7	12227.7	11714.5	10982.4	10774.9	10824.0	13178.6	11380.5
50°	16563.3	16438.8	15319.9	13738.9	13150.3	12954.0	12267.3	12014.5	11944.7	14403.0	12684.2
52.5°	16338.8	16329.3	15584.1	14331.3	13995.5	14237.0	13884.2	13591.7	13335.1	15693.5	14010.6
55°	15978.4	16025.6	15691.6	14850.2	14838.8	15408.6	16095.4	15852.0	15108.6	17095.3	15153.9
57.5°	14984.1	15186.0	15631.3	15831.2	16295.4	16878.4	17936.8	18080.2	17201.0	18168.9	16102.9
60°	12157.9	12601.2	14057.8	15972.7	18172.6	19625.4	20159.3	20282.0	18917.9	19061.3	17384.0
62.5°	8629.7	9082.5	10929.6	14169.1	18200.9	23234.6	23470.5	22989.4	20808.3	20388.8	19593.3
65°	4580.9	4929.9	6439.3	10227.8	15780.3	24072.3	29260.7	27826.8	24144.0	22985.6	22447.9
67.5°	2343.3	2448.9	3048.9	5005.4	10848.5	21381.9	34451.0	35460.4	29892.8	25566.6	22310.1
69°	2073.5	2135.7	2533.8	3618.7	6946.8	18110.4	34703.8	38081.0	32902.0	25351.5	20274.4
70°	2007.4	2062.2	2424.4	3275.3	5429.9	15187.9	33736.0	37850.8	33671.8	24532.7	18753.7
72.5°	1703.7	1750.9	2158.4	2894.2	4413.0	7539.2	27404.2	32073.8	30215.4	20436.7	13574.8
75°	1139.6	1294.3	2071.6	2713.1	4105.4	4282.8	18067.0	23178.0	21530.9	13784.2	7071.3
77.5°	273.6	294.3	584.9	2158.4	3754.5	3769.6	9292.0	14408.7	11752.2	4912.9	1671.6
80°	147.2	141.5	164.1	428.3	3496.0	3537.5	4182.8	6994.0	4196.0	815.1	550.9
82.5°	103.8	98.1	105.7	179.2	1099.9	3222.5	3026.3	3165.9	1739.5	313.2	247.2
85°	37.7	35.8	58.5	162.3	345.3	1852.7	3109.3	2611.2	1409.4	143.4	181.1
87.5°	13.2	11.3	22.6	88.7	105.7	788.6	1918.8	1973.5	554.7	86.8	84.9
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°	8684.4	8684.4	8684.4	8684.4	8684.4	8684.4	8684.4	8684.4	8684.4	8684.4	8684.4
2.5°	8607.1	8490.1	8275.0	8054.3	7850.5	7605.3	7482.6	7361.9	7310.9	7292.1	7203.4
5°	8358.1	8159.9	7703.4	7244.9	6822.3	6373.2	6077.0	5839.3	5699.7	5631.8	5524.2
7.5°	8039.2	7714.7	7022.3	6314.8	5656.3	5007.3	4526.2	4156.4	3901.7	3779.0	3667.7
10°	7729.8	7297.7	6312.9	5348.8	4454.5	3594.2	2930.0	2448.9	2141.4	1999.9	1909.3
12.5°	7452.4	6892.1	5628.0	4407.3	3284.7	2277.2	1601.8	1218.8	1028.2	962.2	930.1
15°	7205.3	6518.5	4980.9	3513.0	2224.4	1301.8	875.4	745.2	715.1	715.1	711.3
17.5°	6971.3	6152.5	4356.4	2673.4	1396.2	796.2	666.0	649.0	649.0	656.6	656.6
20°	6746.8	5803.5	3752.6	1918.8	879.2	632.0	601.9	598.1	601.9	611.3	611.3
22.5°	6554.4	5486.5	3188.5	1316.9	652.8	569.8	554.7	549.0	550.9	556.6	560.3
25°	6411.0	5218.6	2656.5	892.4	562.2	518.8	501.9	492.4	484.9	484.9	488.7
27.5°	6320.4	4992.2	2141.4	649.0	505.6	471.7	445.3	430.2	413.2	403.8	407.5
30°	6254.4	4777.1	1658.4	530.2	452.8	418.8	384.9	360.4	335.8	324.5	328.3
32.5°	6229.9	4603.5	1239.6	467.9	405.6	367.9	326.4	294.3	267.9	258.5	260.4
35°	6295.9	4465.8	907.5	422.6	367.9	320.7	273.6	237.7	217.0	211.3	213.2
37.5°	6469.5	4392.2	679.2	384.9	333.9	281.1	228.3	194.3	181.1	181.1	183.0
40°	6797.8	4390.3	545.3	358.5	303.8	243.4	188.7	164.1	156.6	160.4	162.3
42.5°	7277.0	4490.3	475.4	333.9	277.3	207.5	156.6	139.6	137.7	141.5	143.4
45°	7931.7	4673.3	437.7	313.2	249.0	173.6	132.1	120.7	120.7	126.4	128.3
47.5°	8733.5	4941.2	405.6	292.4	220.7	145.3	113.2	105.7	107.5	113.2	115.1
50°	9699.5	5279.0	373.6	269.8	200.0	120.7	98.1	92.4	94.3	101.9	103.8
52.5°	10799.4	5733.7	347.2	249.0	173.6	100.0	83.0	79.2	83.0	90.6	92.4
55°	11742.8	6141.2	315.1	232.1	139.6	83.0	67.9	67.9	71.7	81.1	83.0
57.5°	12650.3	6567.6	286.8	200.0	109.4	66.0	56.6	58.5	64.1	73.6	75.5
60°	13982.3	7290.2	252.8	167.9	83.0	52.8	47.2	49.1	56.6	66.0	67.9
62.5°	16244.4	8390.1	218.9	139.6	64.1	41.5	37.7	41.5	50.9	62.3	64.1
65°	18285.8	8837.3	179.2	117.0	49.1	32.1	32.1	37.7	49.1	60.4	62.3
67.5°	17148.2	7439.2	139.6	92.4	37.7	24.5	26.4	35.8	47.2	60.4	62.3
69°	15165.2	6082.7	118.9	73.6	32.1	22.6	24.5	35.8	47.2	58.5	60.4
70°	13620.0	5135.6	105.7	62.3	28.3	22.6	24.5	34.0	47.2	58.5	60.4
72.5°	9122.2	2773.4	84.9	45.3	26.4	20.8	20.8	34.0	45.3	56.6	58.5
75°	3920.5	766.0	67.9	32.1	22.6	18.9	18.9	32.1	43.4	54.7	58.5
77.5°	716.9	194.3	54.7	28.3	22.6	18.9	17.0	30.2	41.5	52.8	54.7
80°	284.9	96.2	43.4	24.5	20.8	17.0	15.1	28.3	39.6	50.9	52.8
82.5°	171.7	54.7	35.8	22.6	20.8	15.1	13.2	24.5	37.7	49.1	50.9
85°	139.6	37.7	28.3	22.6	18.9	15.1	11.3	22.6	34.0	47.2	49.1
87.5°	67.9	26.4	26.4	20.8	18.9	15.1	11.3	20.8	32.1	45.3	47.2
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)