

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: P383350

Luminaire Tested: **GLEON-SA6C-735-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383350
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6C-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27985.6 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

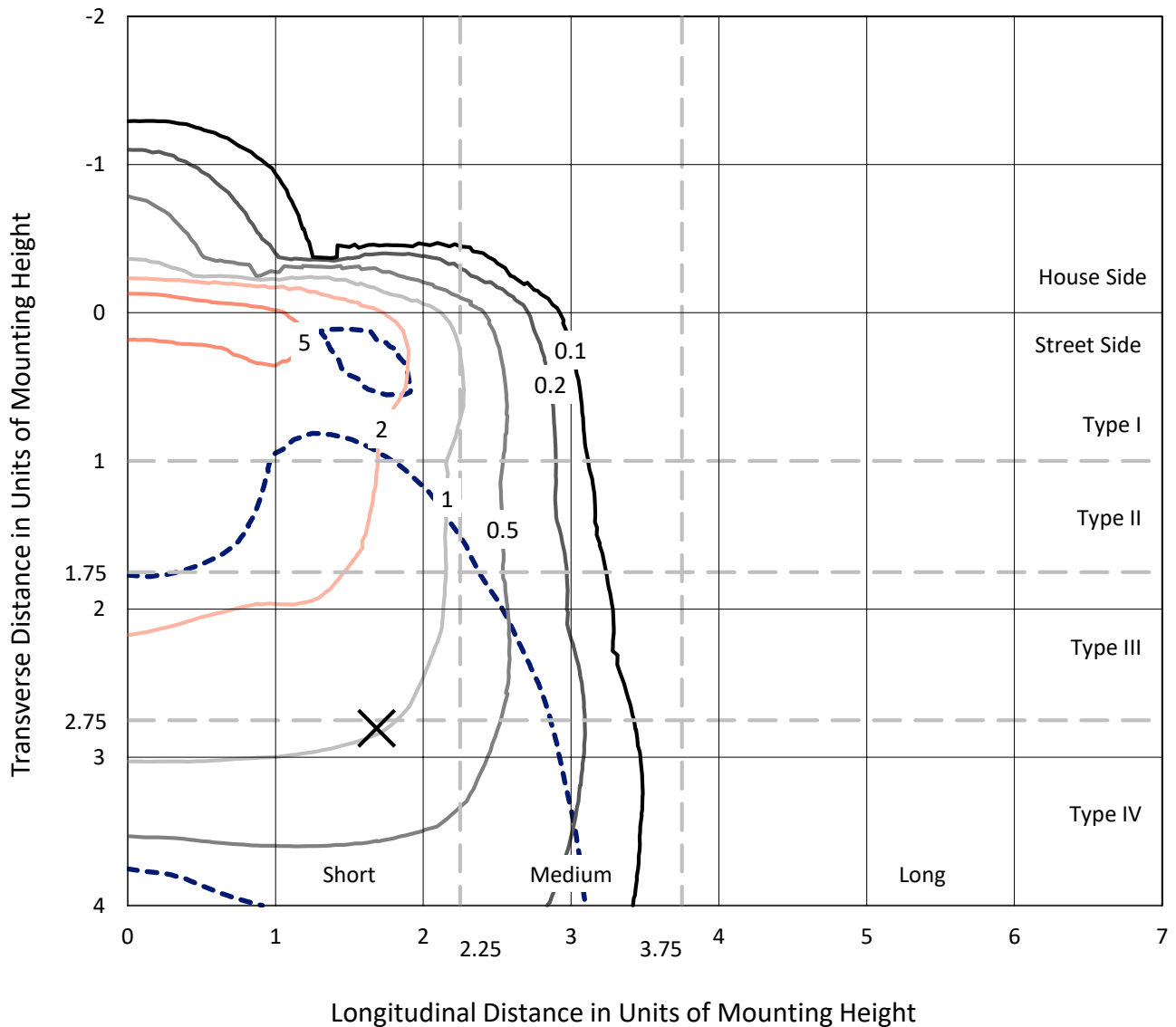
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

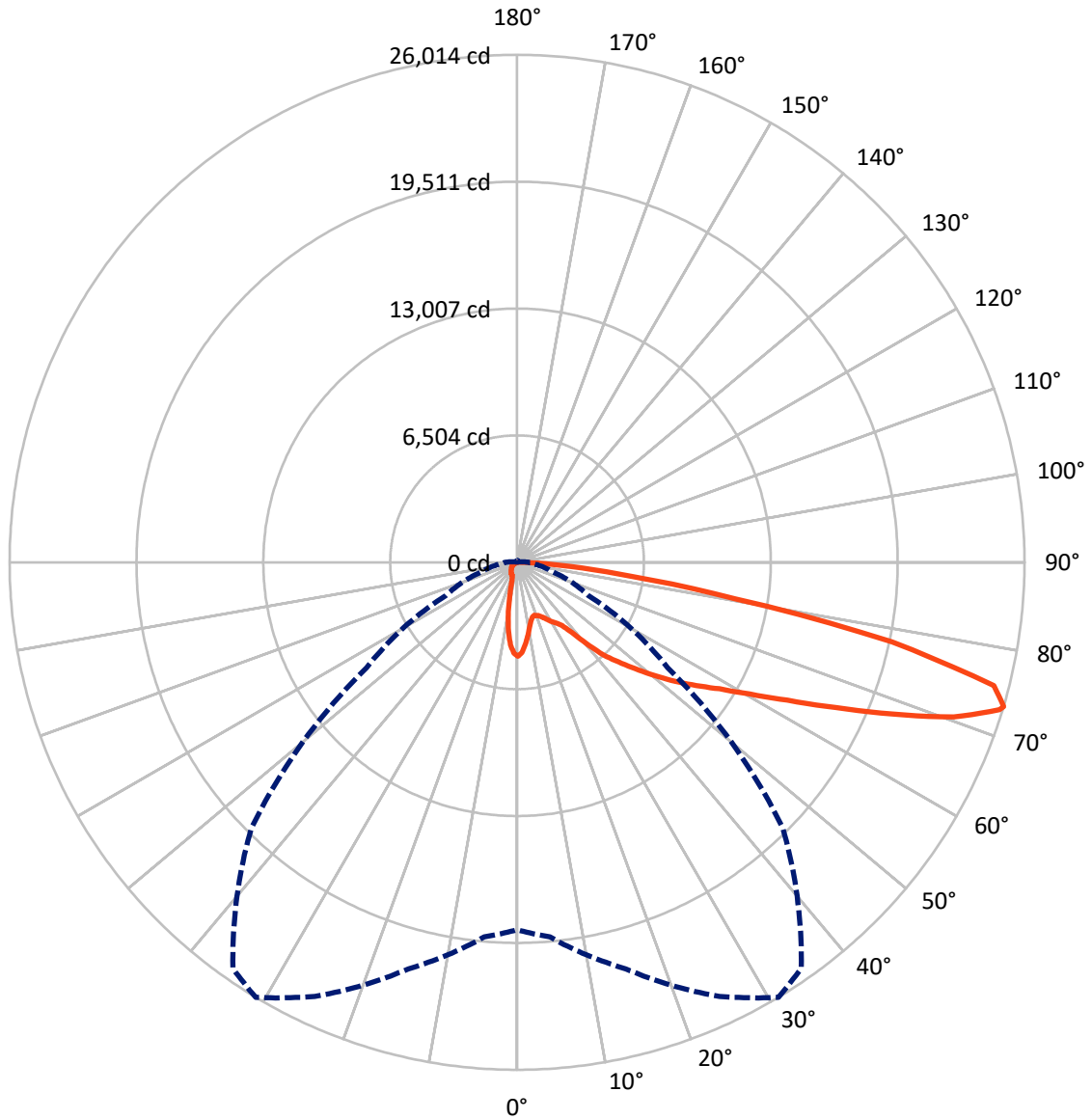
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2551.0	0.0	2551.0
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	25434.6	0.0	25434.6
	% Fixture	90.9	0.0	90.9
Total	Lumens	27985.6	0.0	27985.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.2	1.4
10°-20°	866.8	3.1
20°-30°	1298.8	4.6
30°-40°	2066.4	7.4
40°-50°	3689.9	13.2
50°-60°	5725.7	20.5
60°-70°	7611.6	27.2
70°-80°	5725.5	20.5
80°-90°	601.6	2.1
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°	27985.6	100.0
0°-180°	27985.6	100.0

Coefficient of Utilization

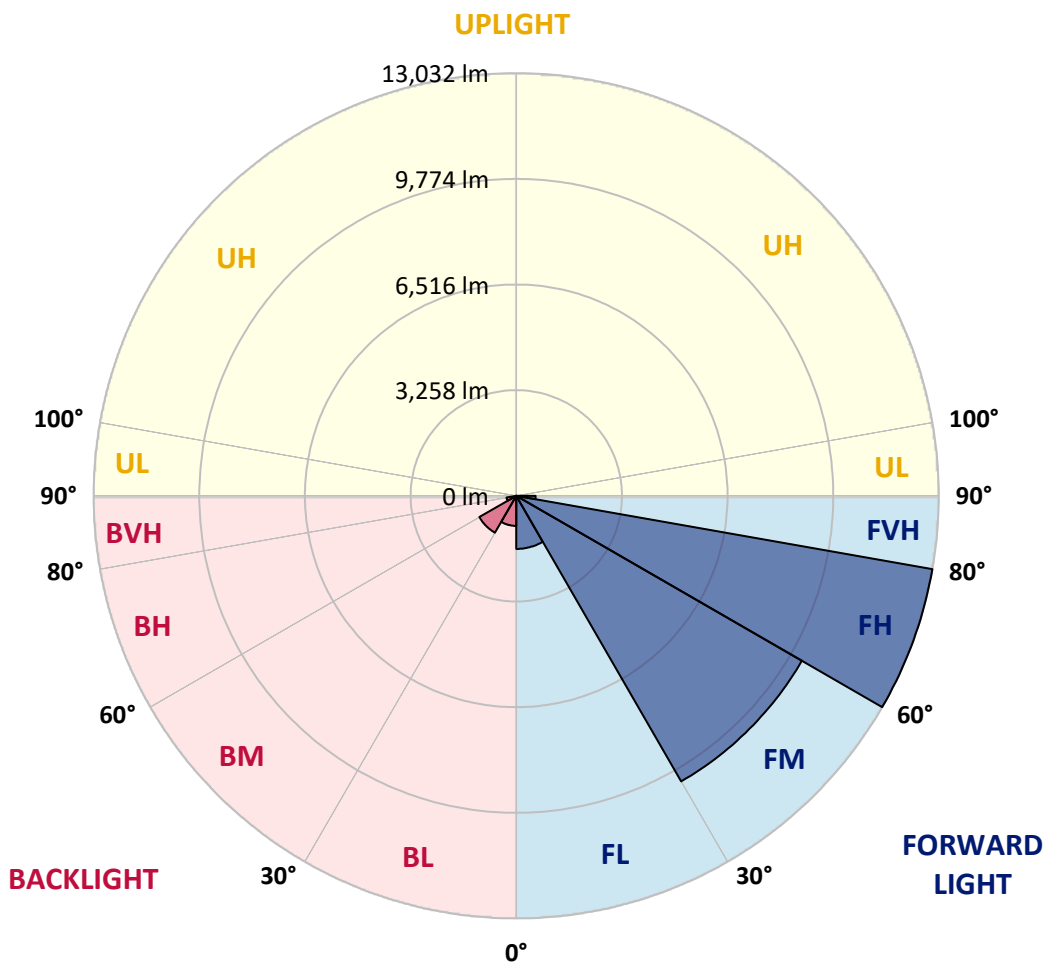


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1637.2	5.9			
FM (30°-60°)	10169.0	36.3			
FH (60°-80°)	13031.8	46.6			G5
FVH (80°-90°)	596.6	2.1			G4/750
BL (0°-30°)	927.6	3.3	B2/1000		
BM (30°-60°)	1313.1	4.7	B2/2500		
BH (60°-80°)	305.2	1.1	B1/500		G1/500
BVH (80°-90°)	5.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	4815.0	4815.0	4815.0	4815.0	4815.0	4815.0	4815.0	4815.0	4815.0	4815.0	4815.0
2.5°	4563.0	4582.2	4602.7	4606.8	4641.1	4642.5	4691.7	4728.7	4765.7	4801.3	4813.6
5°	4094.6	4126.1	4163.1	4200.1	4272.6	4301.4	4422.0	4545.2	4663.0	4775.3	4830.1
7.5°	3594.7	3630.4	3682.4	3774.2	3855.0	3911.1	4101.5	4320.6	4539.7	4746.5	4865.7
10°	3138.8	3171.6	3226.4	3323.7	3448.3	3525.0	3781.1	4085.0	4406.9	4720.5	4919.0
12.5°	2848.5	2866.3	2896.4	3000.4	3112.8	3199.0	3500.3	3876.9	4297.3	4719.1	5005.3
15°	2795.0	2800.5	2775.8	2822.4	2910.1	2993.6	3299.0	3708.5	4213.8	4741.0	5117.6
17.5°	2880.0	2877.2	2795.0	2789.5	2859.4	2927.9	3200.4	3592.0	4154.9	4791.7	5262.8
20°	3008.7	2999.1	2856.7	2830.6	2904.6	2968.9	3193.5	3548.3	4133.0	4876.6	5439.4
22.5°	3179.8	3163.4	2940.2	2912.9	2992.2	3059.4	3278.5	3590.7	4152.2	4990.3	5644.9
25°	3392.1	3367.5	3084.0	3053.9	3134.7	3201.7	3430.4	3712.6	4209.7	5128.5	5905.1
27.5°	3631.7	3596.1	3314.1	3236.0	3327.8	3397.6	3633.1	3898.8	4300.0	5275.1	6224.1
30°	3857.7	3811.1	3556.5	3427.7	3540.0	3618.0	3852.2	4120.7	4445.3	5501.1	6661.0
32.5°	4085.0	4033.0	3772.9	3619.4	3720.8	3805.7	4078.2	4426.1	4717.7	5846.2	7241.7
35°	4608.2	4553.4	4234.3	3981.0	3979.6	4027.5	4394.6	4843.8	5077.9	6326.9	7934.5
37.5°	5488.8	5457.3	5153.2	4672.5	4543.8	4490.4	4825.9	5342.2	5595.5	6988.3	8716.5
40°	6452.8	6425.4	6084.4	5649.0	5453.1	5321.7	5444.9	6036.5	6326.9	7796.2	9514.9
42.5°	7541.5	7411.5	6803.4	6673.3	6498.0	6398.1	6287.1	6892.4	7225.2	8675.4	10306.5
45°	8530.3	8311.2	7522.3	7325.1	7285.4	7310.1	7371.7	8042.8	8235.8	9720.3	11095.3
47.5°	9119.1	8946.6	8341.3	8152.3	8141.4	8304.3	8770.0	9342.4	9242.3	10631.0	11789.6
50°	9679.2	9523.1	9020.5	9067.1	9117.8	9339.6	10357.1	10679.0	10161.3	11456.8	12426.4
52.5°	10132.5	9894.2	9631.3	9892.8	10142.1	10499.6	11995.0	11878.5	10813.1	12114.1	12971.4
55°	10394.1	10285.9	10413.3	10676.2	11144.6	11725.2	13541.1	12876.9	11289.7	12713.9	13334.3
57.5°	11352.7	11140.5	11393.8	11621.1	12231.9	13044.0	14865.4	13620.5	11633.4	13085.1	13417.8
60°	12512.6	12341.4	12490.7	12868.7	13693.1	14647.6	16103.3	14227.2	11812.9	13323.4	13201.4
62.5°	14358.6	14132.7	14039.5	14462.7	15555.5	16597.7	17042.8	14647.6	11773.1	13217.9	12459.3
65°	16831.9	16597.7	16181.4	16564.8	17954.8	18690.2	18093.1	14736.6	11499.2	12364.7	10583.0
67.5°	19365.3	19195.6	18839.4	19485.8	20740.3	20977.1	19203.8	14520.2	10617.3	10025.7	7477.2
70°	21038.8	20966.2	21197.6	22627.4	23746.2	23677.7	20222.6	13357.6	8275.6	6165.3	3698.9
72.5°	19832.3	20180.1	21889.2	24481.6	25848.3	25289.6	19699.4	10257.2	4730.0	2371.9	1069.5
73°	18832.6	19277.7	21578.4	24551.4	26014.0	25401.8	19259.9	9415.0	4031.6	1872.0	810.7
75°	13101.5	13647.9	17864.4	22865.7	25238.9	24202.3	16054.0	5762.6	1867.9	829.9	327.3
77.5°	6361.1	6765.1	9836.8	16521.0	19628.3	18909.3	9994.2	2147.3	843.6	519.1	150.6
80°	2374.6	2640.3	4269.9	8408.4	11343.1	11640.2	4395.9	812.1	561.4	417.7	76.7
82.5°	621.7	693.0	1574.9	3749.6	5813.3	6084.4	1385.9	409.5	410.8	343.7	46.6
85°	198.6	227.3	491.7	1683.0	2738.9	2404.8	361.5	198.6	298.6	256.1	26.0
87.5°	24.7	31.5	156.1	395.8	603.9	335.5	56.2	58.9	127.3	142.4	15.1
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°	4815.0	4815.0	4815.0	4815.0	4815.0	4815.0	4815.0	4815.0	4815.0	4815.0	4815.0
2.5°	4825.9	4819.1	4820.5	4784.8	4761.6	4715.0	4667.1	4645.2	4621.9	4612.3	4621.9
5°	4850.6	4838.3	4802.7	4693.1	4576.7	4426.1	4285.0	4178.2	4043.9	4007.0	4045.3
7.5°	4888.9	4864.3	4760.2	4537.0	4278.1	3990.6	3667.4	3431.8	3238.7	3114.2	3159.3
10°	4945.0	4898.5	4688.9	4309.6	3846.7	3337.4	2878.6	2521.1	2267.8	2163.7	2159.6
12.5°	5039.6	4951.9	4601.4	4013.9	3319.6	2640.3	2039.1	1651.5	1446.1	1313.3	1310.6
15°	5143.6	5014.9	4490.4	3659.1	2706.1	1891.2	1313.3	1018.8	886.0	843.6	838.1
17.5°	5271.0	5087.5	4346.6	3222.3	2063.8	1253.0	857.3	772.3	766.8	762.8	762.8
20°	5431.2	5173.7	4161.8	2722.4	1463.9	836.7	728.6	734.1	736.8	731.3	732.7
22.5°	5617.5	5261.4	3941.3	2185.6	990.1	699.8	697.1	703.9	706.7	703.9	705.3
25°	5833.8	5362.7	3672.8	1622.8	714.9	664.2	671.0	680.6	687.5	687.5	687.5
27.5°	6102.3	5486.0	3349.7	1132.6	617.6	627.2	646.4	664.2	673.8	676.5	676.5
30°	6451.4	5639.4	2962.1	776.4	561.4	577.9	613.5	647.7	665.6	668.3	669.7
32.5°	6892.4	5811.9	2512.9	573.8	513.6	525.9	564.2	621.7	656.0	661.4	661.4
35°	7397.8	6011.8	2029.6	499.9	479.3	483.4	513.6	579.2	639.5	654.6	656.0
37.5°	7951.0	6209.0	1543.4	467.0	450.6	450.6	472.5	528.6	599.8	646.4	651.9
40°	8467.3	6328.2	1081.9	441.0	424.5	424.5	443.7	484.8	551.8	621.7	636.8
42.5°	8943.9	6369.3	753.2	416.3	399.9	404.0	420.4	453.3	504.0	573.8	587.5
45°	9434.2	6362.5	549.1	387.5	375.2	387.5	399.9	424.5	461.5	501.2	504.0
47.5°	9803.9	6304.9	435.5	360.1	351.9	368.4	379.3	395.8	416.3	413.6	413.6
50°	10150.3	6165.3	350.5	323.2	328.6	347.8	353.3	358.8	360.1	334.1	331.4
52.5°	10413.3	5947.5	280.8	283.5	305.4	324.6	319.1	310.9	297.2	265.7	260.2
55°	10500.9	5528.5	220.5	234.2	271.2	295.8	275.3	257.5	231.4	205.4	199.9
57.5°	10342.0	4987.5	179.4	182.1	228.7	249.3	226.0	205.4	176.6	154.7	150.6
60°	10005.2	4386.4	147.9	136.9	176.6	194.5	179.4	158.8	132.8	116.4	115.0
62.5°	9336.9	3745.5	121.8	106.8	134.2	149.2	139.6	124.6	102.7	91.8	90.4
65°	7931.8	2996.3	98.6	86.3	104.1	116.4	108.2	97.3	80.8	72.6	71.2
67.5°	5536.7	2025.4	80.8	71.2	82.2	91.8	84.9	79.5	64.4	63.0	64.4
70°	2670.4	976.4	67.1	57.5	64.4	71.2	68.5	64.4	61.7	71.2	82.2
72.5°	765.5	327.3	53.4	48.0	52.1	56.2	58.9	57.5	67.1	86.3	100.0
73°	588.8	264.3	50.7	45.2	49.3	54.8	57.5	56.2	68.5	87.7	100.0
75°	252.0	127.3	38.4	37.0	41.1	48.0	50.7	50.7	68.5	89.1	95.9
77.5°	113.6	68.5	24.7	28.8	35.6	38.4	42.5	42.5	54.8	68.5	68.5
80°	64.4	37.0	19.2	21.9	26.0	26.0	26.0	23.3	24.7	27.4	30.1
82.5°	41.1	24.7	15.1	17.8	16.4	13.7	11.0	11.0	9.6	11.0	13.7
85°	23.3	13.7	13.7	11.0	6.9	5.5	6.9	5.5	1.4	0.0	1.4
87.5°	13.7	8.2	4.1	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)