

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: P321720

Luminaire Tested: **GLEON-SA6B-827-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6B-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19324 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 249
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

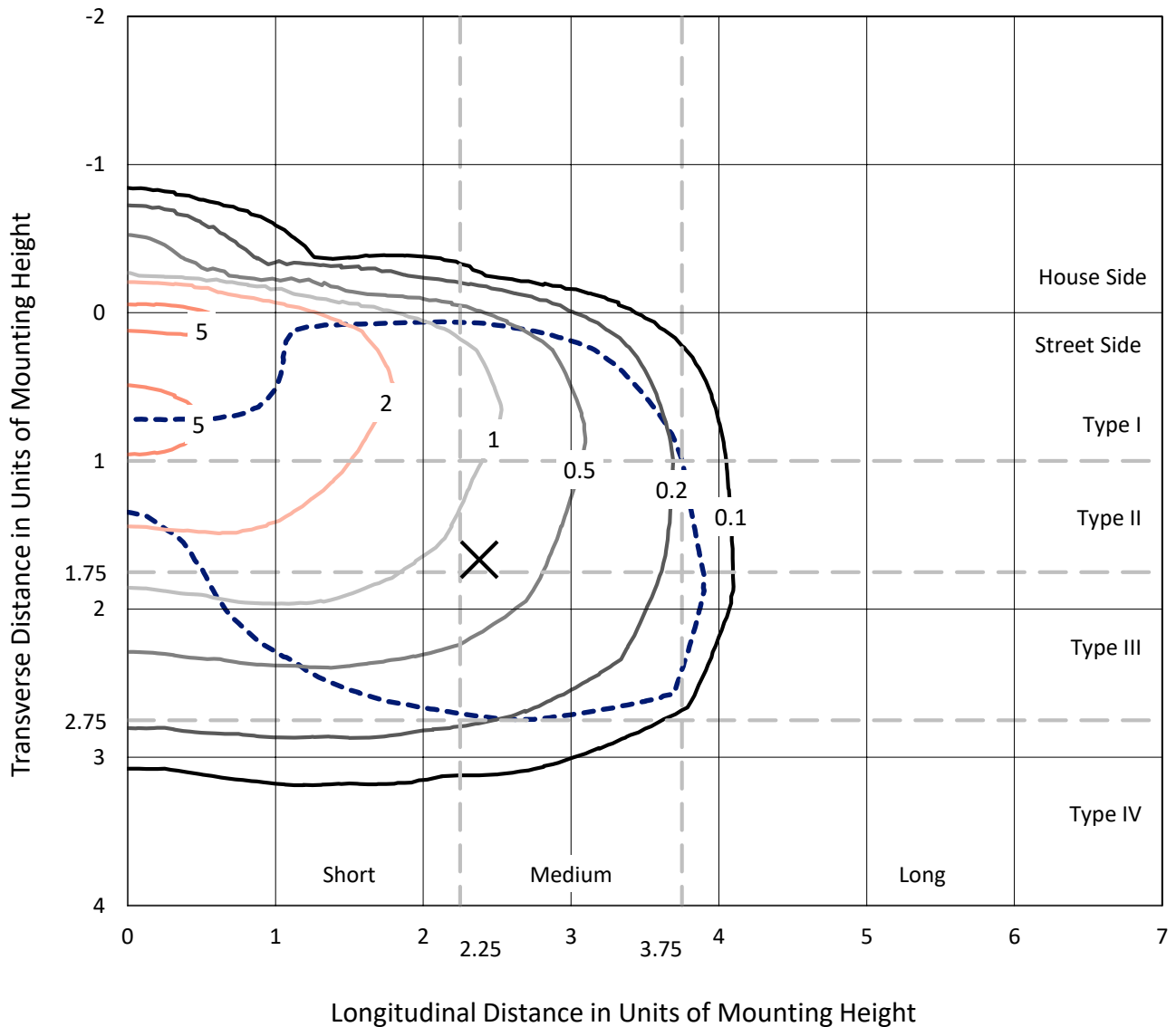




REPORT NUMBER: P321720
 CATALOG NUMBER: GLEON-SA6B-827-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

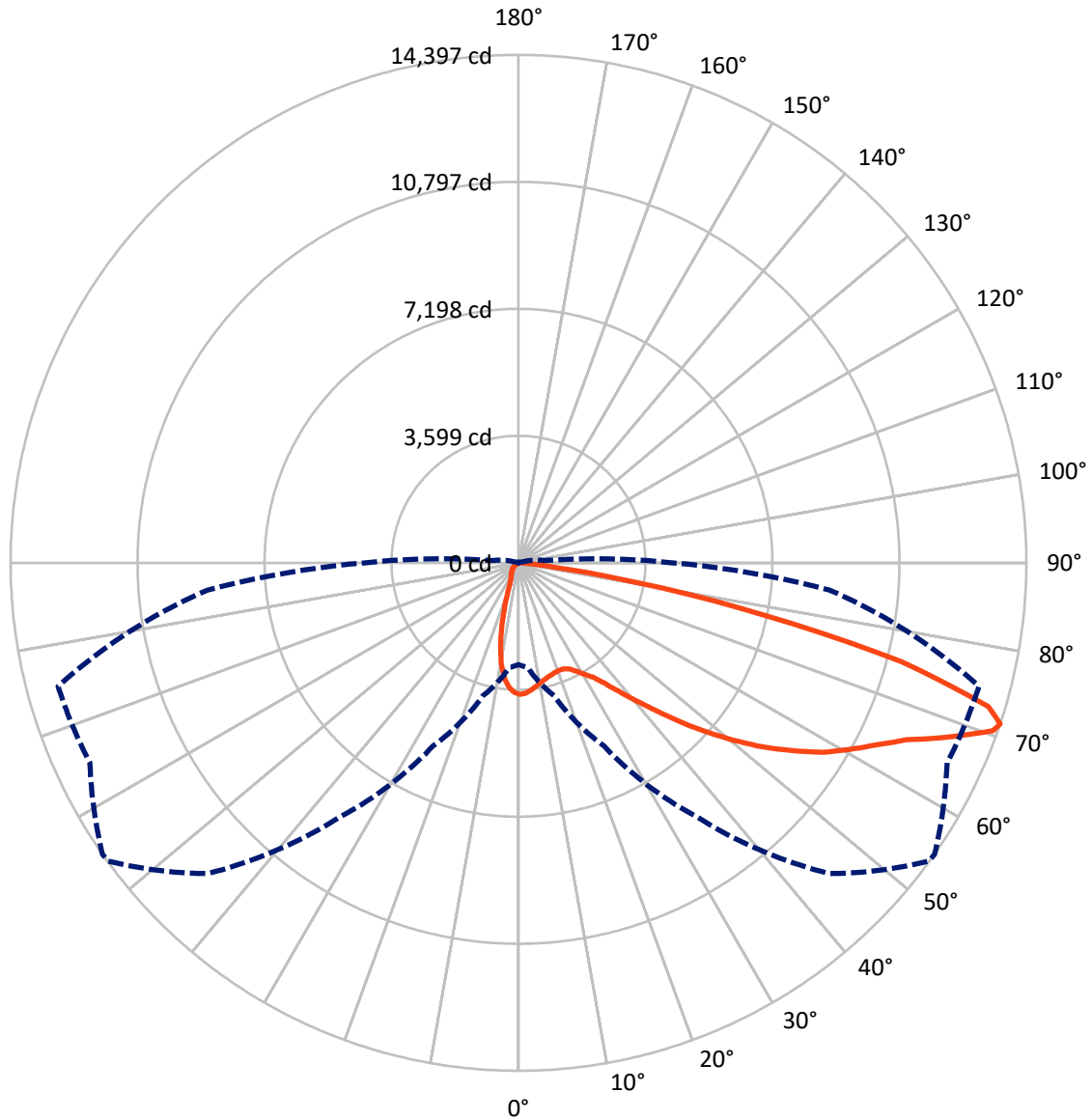
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P321720
CATALOG NUMBER: GLEON-SA6B-827-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P321720
 CATALOG NUMBER: GLEON-SA6B-827-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1529.9	0.0	1529.9
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	17794.1	0.0	17794.1
	% Fixture	92.1	0.0	92.1
Total	Lumens	19324.0	0.0	19324.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.8	1.6
10°-20°	717.3	3.7
20°-30°	1152.8	6.0
30°-40°	1958.7	10.1
40°-50°	3040.1	15.7
50°-60°	4087.3	21.2
60°-70°	5000.2	25.9
70°-80°	2923.5	15.1
80°-90°	126.4	0.7
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°	19324.0	100.0
0°-180°	19324.0	100.0

Coefficient of Utilization

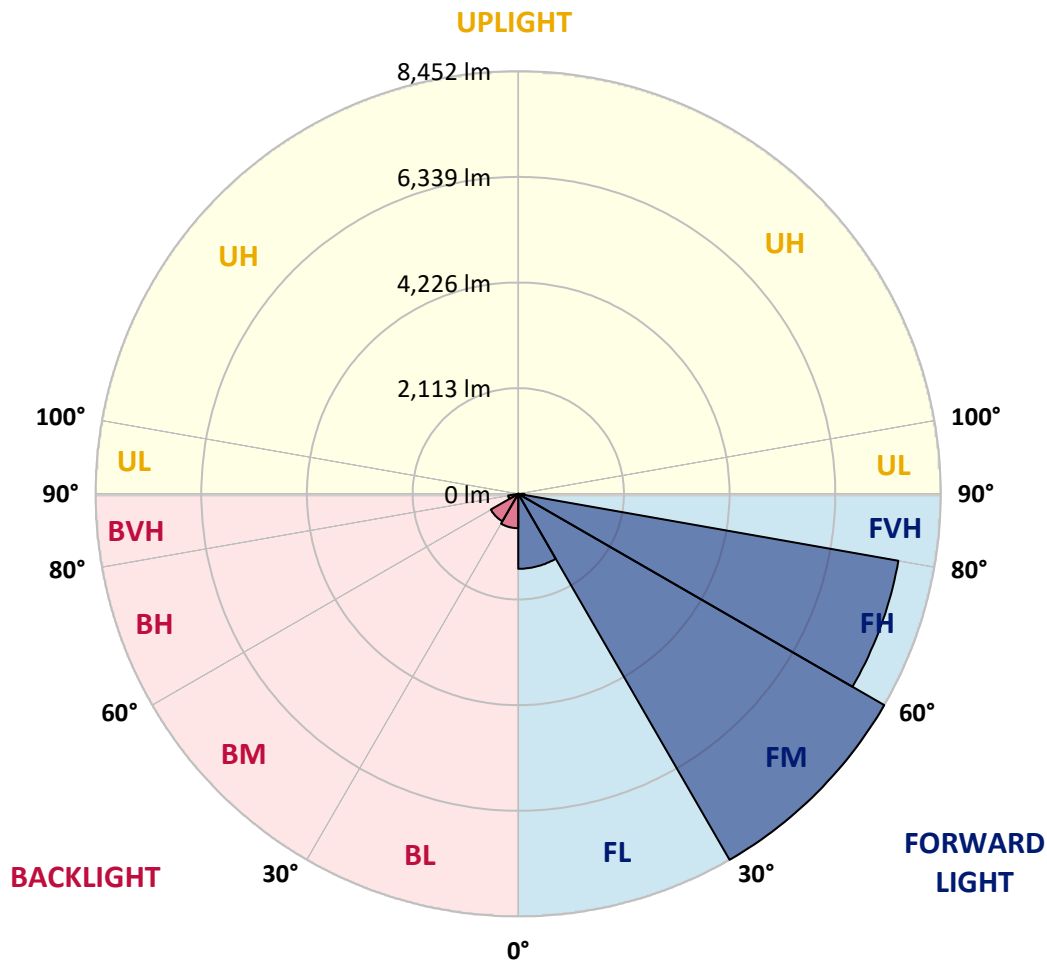


REPORT NUMBER: P321720
 CATALOG NUMBER: GLEON-SA6B-827-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1499.3	7.8			
FM (30°-60°)	8451.8	43.7			
FH (60°-80°)	7718.7	39.9			G4/12000
FVH (80°-90°)	124.4	0.6			G2/225
BL (0°-30°)	688.6	3.6	B2/1000		
BM (30°-60°)	634.3	3.3	B1/1000		
BH (60°-80°)	205.0	1.1	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Medium





REPORT NUMBER: P321720

CATALOG NUMBER: GLEON-SA6B-827-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7
2.5°	3617.4	3621.7	3637.3	3644.3	3660.8	3688.5	3702.4	3703.3	3725.8	3734.5	3741.5
5°	3361.4	3387.4	3413.5	3441.2	3491.6	3558.4	3624.3	3630.4	3703.3	3757.1	3785.7
7.5°	3141.0	3164.4	3195.7	3239.9	3311.1	3416.1	3526.3	3539.3	3677.2	3799.6	3863.8
10°	2914.6	2933.6	2978.8	3043.8	3141.9	3282.4	3430.8	3452.5	3653.8	3856.9	3969.7
12.5°	2672.5	2683.7	2738.4	2832.1	2976.2	3154.9	3350.1	3378.8	3639.1	3922.8	4094.6
15°	2488.5	2493.7	2545.8	2643.0	2807.8	3040.4	3287.7	3322.4	3642.5	4001.8	4230.8
17.5°	2441.7	2444.3	2472.0	2538.8	2684.6	2938.0	3238.2	3280.7	3652.9	4079.0	4367.9
20°	2631.7	2613.5	2584.8	2574.4	2636.9	2876.4	3208.7	3256.4	3666.8	4147.5	4491.1
22.5°	3153.2	3099.4	2980.5	2821.7	2725.4	2880.7	3216.5	3264.2	3711.1	4231.7	4633.4
25°	3927.1	3852.5	3650.3	3338.0	3037.8	3005.7	3281.6	3330.2	3797.0	4332.3	4769.7
27.5°	4807.8	4734.1	4486.8	4040.8	3528.9	3252.9	3430.8	3475.9	3924.5	4421.7	4873.8
30°	5651.2	5630.4	5338.9	4832.1	4146.7	3653.8	3623.4	3661.6	4019.1	4475.5	4956.2
32.5°	6366.2	6333.2	6099.0	5606.1	4853.8	4135.4	3849.9	3861.2	4090.3	4544.9	5063.8
35°	7029.1	6988.3	6782.7	6316.7	5579.2	4723.7	4198.7	4182.2	4245.6	4684.6	5220.0
37.5°	7607.9	7645.2	7417.0	6973.6	6230.0	5335.4	4669.0	4619.5	4488.5	4912.0	5446.5
40°	8092.0	8092.0	7973.1	7603.5	6932.8	5967.9	5200.9	5135.8	4853.8	5262.5	5733.7
42.5°	8266.4	8303.7	8348.0	8138.9	7561.9	6625.6	5793.5	5725.8	5368.4	5759.7	6096.3
45°	8276.8	8335.8	8562.3	8561.4	8130.2	7279.0	6461.6	6429.5	6027.8	6398.3	6545.8
47.5°	8130.2	8204.0	8577.1	8788.8	8580.5	7887.2	7192.2	7152.3	6802.6	7181.0	7016.1
50°	7903.7	7985.3	8419.1	8878.1	8886.8	8416.5	7961.9	7902.0	7655.6	8075.5	7502.0
52.5°	7498.5	7656.4	8277.7	8899.0	9088.1	8873.8	8694.2	8668.2	8610.0	8937.1	7889.0
55°	6631.7	6807.0	7922.8	8905.9	9274.7	9279.0	9380.5	9387.5	9504.6	9742.4	8177.1
57.5°	6222.2	6321.1	7303.3	8938.9	9551.5	9738.9	10079.9	10133.7	10315.0	10506.8	8505.9
60°	5964.5	6081.6	6997.9	8893.8	9986.2	10341.9	10728.0	10746.3	10940.6	11295.5	8951.0
62.5°	5758.8	5874.2	6805.2	8720.2	10474.7	11067.3	11361.5	11363.2	11509.0	12235.2	9456.9
65°	5251.2	5348.4	6415.7	8525.0	10797.5	11784.9	12097.3	12086.0	12204.8	13226.1	10044.3
67.5°	4517.2	4591.8	5620.0	7784.9	10676.0	12437.4	13207.9	13170.6	13026.5	14082.5	10275.1
70°	3492.4	3519.3	4429.5	6487.7	9537.6	12688.1	14281.2	14262.1	13530.7	13928.9	9429.1
71°	2886.8	2975.3	3903.7	5725.8	8774.9	12456.5	14385.3	14396.6	13404.0	13510.7	8846.9
72.5°	1676.4	1751.9	2829.5	4397.4	7449.9	11489.9	13845.6	13927.2	12812.2	12289.0	7556.7
75°	359.2	384.4	1049.0	2128.4	4098.1	8053.0	10928.5	11219.2	10442.6	8360.1	4554.5
77.5°	249.9	269.8	449.5	965.7	1354.5	3979.2	6788.8	7116.7	6238.6	3141.9	1457.7
80°	197.8	220.4	350.5	477.2	366.2	1283.3	3180.1	3380.5	2080.7	701.1	245.6
82.5°	110.2	131.0	273.3	257.7	140.6	243.8	890.2	1006.5	416.5	141.4	58.1
85°	32.1	39.0	176.1	187.4	59.9	46.9	151.8	188.3	79.0	37.3	26.0
87.5°	0.0	0.0	85.0	72.0	17.4	6.9	13.9	15.6	15.6	15.6	17.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P321720

CATALOG NUMBER: GLEON-SA6B-827-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7
2.5°	3741.5	3747.5	3725.8	3697.2	3666.8	3629.5	3590.5	3560.1	3559.2	3544.5	3529.7
5°	3787.4	3784.0	3724.1	3633.0	3525.4	3413.5	3306.7	3186.1	3146.2	3096.8	3080.3
7.5°	3872.5	3848.2	3721.5	3521.9	3285.9	3051.6	2809.6	2565.7	2461.6	2367.9	2351.4
10°	3979.2	3933.2	3705.0	3355.3	2922.4	2490.3	2125.0	1793.5	1647.7	1535.8	1530.6
12.5°	4090.3	4020.0	3659.0	3103.7	2446.0	1838.6	1417.8	1091.5	970.1	892.0	898.9
15°	4206.5	4101.5	3560.1	2764.4	1903.7	1247.7	871.2	679.4	630.8	610.8	616.1
17.5°	4325.4	4157.9	3422.1	2355.8	1368.3	805.2	603.0	549.2	549.2	553.6	555.3
20°	4428.7	4188.3	3219.1	1897.6	927.6	586.6	527.6	519.7	524.1	531.0	531.9
22.5°	4531.0	4190.0	2954.5	1433.4	649.0	513.7	502.4	498.9	501.5	509.3	510.2
25°	4614.3	4169.2	2623.0	1019.5	518.0	484.2	479.0	477.2	479.0	488.5	488.5
27.5°	4648.2	4093.7	2218.7	716.7	464.2	451.2	449.5	451.2	453.8	460.7	461.6
30°	4651.7	3961.8	1777.9	518.9	420.8	406.9	410.4	416.5	413.9	412.1	413.9
32.5°	4660.3	3809.1	1348.4	426.9	384.4	362.7	358.4	358.4	347.9	341.9	338.4
35°	4689.0	3629.5	977.9	383.5	347.1	321.9	305.4	286.3	266.4	256.0	253.4
37.5°	4734.1	3441.2	700.2	354.9	314.1	285.5	254.2	220.4	191.8	183.9	183.9
40°	4816.5	3246.9	518.0	332.3	288.1	252.5	205.6	161.4	135.4	131.0	131.0
42.5°	4946.7	3042.1	413.0	312.4	265.5	218.7	157.1	117.1	98.0	95.4	94.6
45°	5082.0	2816.5	361.0	293.3	241.2	179.6	116.3	86.8	75.5	72.9	72.9
47.5°	5217.4	2576.2	335.8	275.1	217.8	139.7	86.8	68.5	63.3	63.3	64.2
50°	5331.9	2325.4	317.6	255.1	187.4	105.9	68.5	58.1	56.4	59.9	60.7
52.5°	5360.6	2079.0	295.0	229.9	150.1	80.7	56.4	51.2	51.2	51.2	51.2
55°	5343.2	1888.1	265.5	198.7	111.1	64.2	48.6	45.1	44.3	44.3	44.3
57.5°	5402.2	1775.3	212.6	154.4	79.8	52.1	42.5	39.9	38.2	37.3	37.3
60°	5521.1	1701.5	151.8	111.1	59.9	43.4	36.4	33.8	31.2	29.5	29.5
62.5°	5679.0	1637.3	112.8	82.4	46.0	34.7	30.4	27.8	24.3	22.6	22.6
65°	5800.5	1522.8	85.9	61.6	34.7	27.8	23.4	22.6	17.4	15.6	14.8
67.5°	5614.8	1271.2	69.4	45.1	26.0	21.7	18.2	17.4	10.4	8.7	8.7
70°	4815.6	885.0	55.5	33.0	19.1	17.4	14.8	11.3	7.8	6.9	6.9
71°	4367.1	739.3	50.3	27.8	16.5	16.5	13.9	9.5	6.9	6.1	6.1
72.5°	3627.8	524.9	42.5	21.7	14.8	17.4	14.8	8.7	6.9	6.1	5.2
75°	2105.9	219.5	29.5	14.8	11.3	20.8	19.1	7.8	5.2	4.3	4.3
77.5°	633.4	80.7	16.5	9.5	8.7	18.2	21.7	6.9	2.6	0.9	0.9
80°	115.4	34.7	10.4	6.1	6.1	11.3	16.5	3.5	0.0	0.0	0.0
82.5°	40.8	17.4	6.1	3.5	2.6	5.2	7.8	0.0	0.0	0.0	0.0
85°	23.4	12.1	3.5	1.7	0.0	0.9	1.7	0.0	0.0	0.0	0.0
87.5°	15.6	3.5	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)