

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: P269314

Luminaire Tested: **GLEON-AF-05-LED-E1-SL3-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-SL3-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17031.6 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

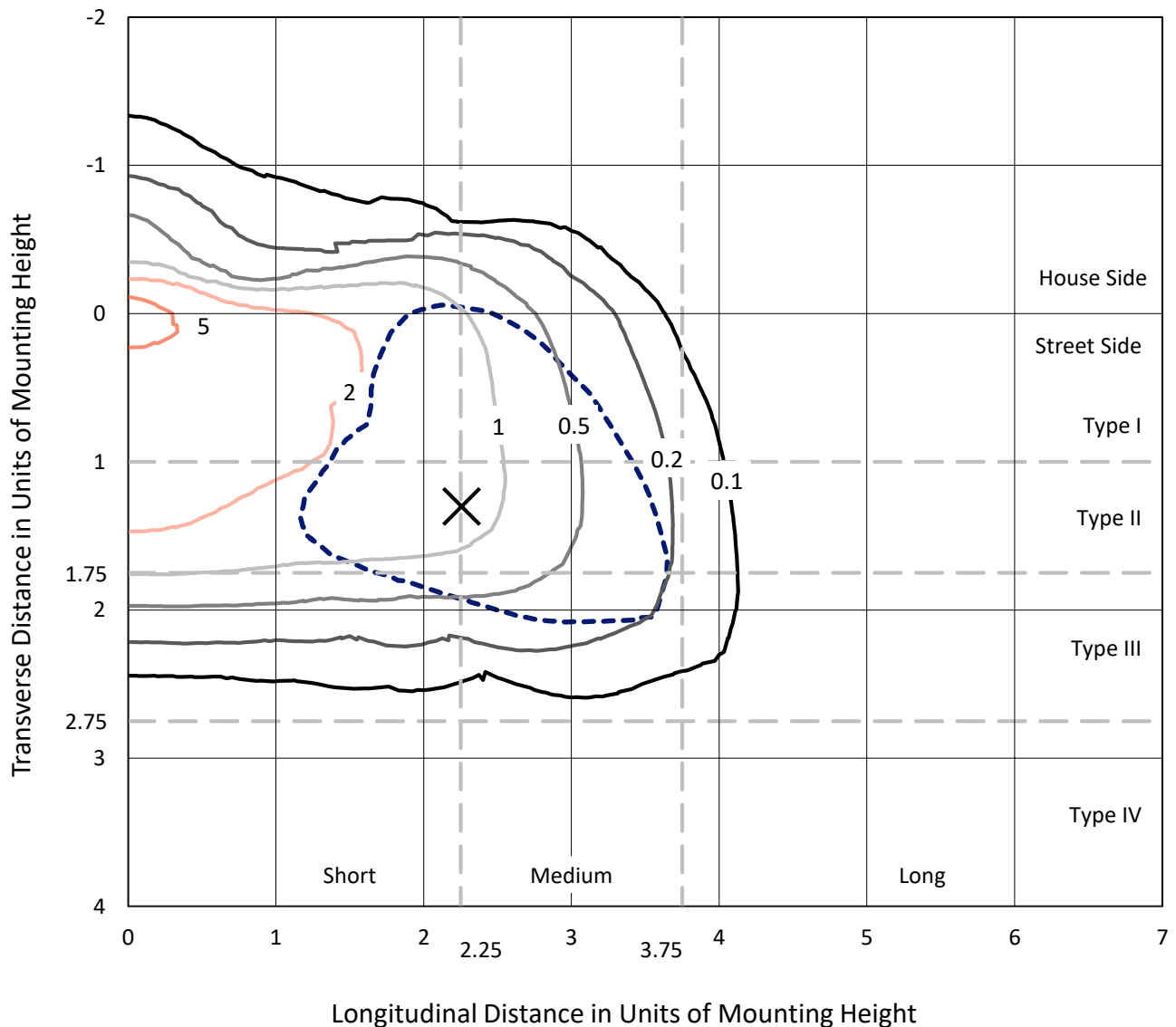
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P269314
 CATALOG NUMBER: GLEON-AF-05-LED-E1-SL3-7027-600

Iso-Footcandle Lines of Horizontal Illumination

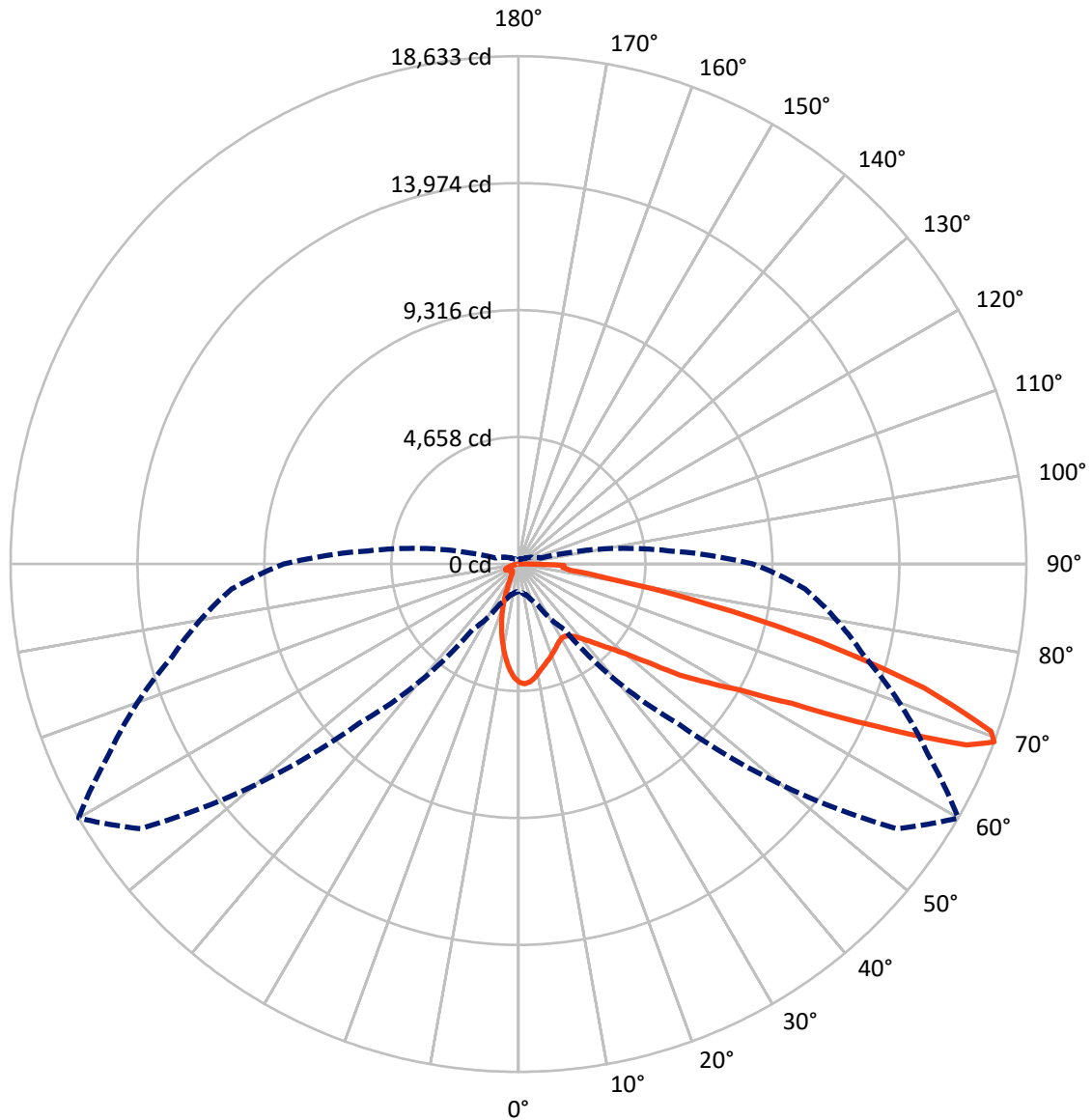
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P269314
CATALOG NUMBER: GLEON-AF-05-LED-E1-SL3-7027-600

Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2423.1	0.0	2423.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	14608.6	0.0	14608.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	17031.6	0.0	17031.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.0	2.2
10°-20°	781.8	4.6
20°-30°	996.2	5.8
30°-40°	1369.5	8.0
40°-50°	2222.1	13.0
50°-60°	3563.7	20.9
60°-70°	4743.1	27.8
70°-80°	2560.9	15.0
80°-90°	427.3	2.5
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°	17031.6	100.0
0°-180°	17031.6	100.0



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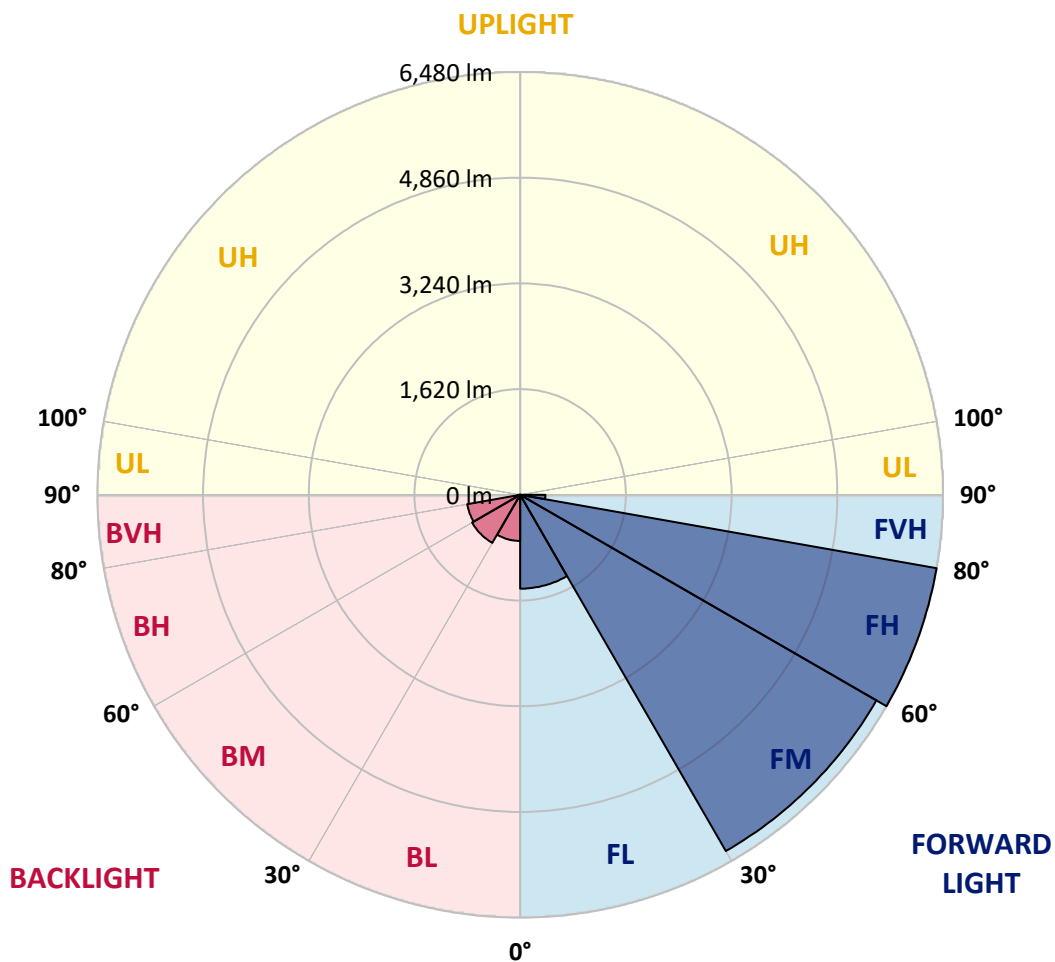
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1438.1	8.4			
FM	(30°-60°)	6304.1	37.0			
FH	(60°-80°)	6480.2	38.0			G3/7500
FVH	(80°-90°)	386.2	2.3			G3/500
BL	(0°-30°)	706.9	4.2	B2/1000		
BM	(30°-60°)	851.3	5.0	B1/1000		
BH	(60°-80°)	823.8	4.8	B2/1000		G2/1000
BVH	(80°-90°)	41.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





REPORT NUMBER: P269314

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL3-7027-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	4339.9	4339.9	4339.9	4339.9	4339.9	4339.9	4339.9	4339.9	4339.9	4339.9	4339.9
2.5°	4428.7	4438.6	4434.6	4432.1	4439.5	4427.9	4404.1	4396.7	4385.2	4357.9	4312.0
5°	4262.5	4292.2	4290.6	4312.8	4349.9	4359.7	4349.0	4350.6	4329.2	4295.4	4219.0
7.5°	3975.4	3987.8	3994.4	4042.9	4110.4	4164.7	4210.7	4225.5	4215.7	4186.9	4088.1
10°	3679.3	3689.1	3704.8	3761.6	3847.1	3922.0	4009.1	4059.4	4080.8	4075.8	3965.6
12.5°	3425.1	3434.8	3455.5	3519.6	3621.6	3713.9	3840.6	3903.0	3954.1	3984.5	3866.0
15°	3197.2	3218.5	3238.3	3312.3	3426.7	3547.6	3690.7	3769.7	3848.8	3917.0	3778.0
17.5°	3019.5	3040.9	3052.4	3119.9	3241.5	3389.7	3557.5	3650.4	3749.2	3861.1	3690.7
20°	2916.5	2926.5	2921.6	2959.3	3068.8	3226.0	3425.1	3532.9	3652.1	3808.5	3603.6
22.5°	2887.8	2888.6	2870.5	2866.4	2937.2	3069.6	3283.6	3414.4	3560.8	3773.9	3528.7
25°	2957.7	2955.2	2905.8	2865.7	2873.0	2950.4	3146.9	3299.1	3484.3	3766.5	3471.1
27.5°	3113.3	3120.6	3047.4	2971.8	2896.9	2894.3	3043.3	3203.7	3421.7	3800.2	3446.4
30°	3331.3	3343.6	3265.3	3169.2	3028.5	2912.5	3002.9	3146.9	3383.0	3870.2	3442.3
32.5°	3569.9	3583.0	3523.8	3422.6	3238.3	3024.4	3030.9	3152.0	3381.4	3968.1	3470.3
35°	3824.1	3838.8	3808.5	3722.8	3518.0	3230.8	3137.9	3231.7	3434.8	4117.8	3545.3
37.5°	4107.9	4130.9	4139.2	4057.7	3838.8	3503.2	3313.2	3383.0	3555.9	4326.0	3682.5
40°	4516.8	4548.8	4546.4	4429.6	4206.7	3870.9	3583.8	3601.9	3744.2	4604.1	3902.2
42.5°	5300.1	5306.6	5101.7	4847.6	4611.4	4257.6	3903.0	3888.3	4004.3	4956.2	4225.5
45°	6296.4	6269.2	5813.4	5322.3	5034.3	4701.9	4318.5	4246.1	4334.1	5385.6	4630.4
47.5°	7123.2	7060.7	6484.8	5806.9	5481.8	5184.8	4806.4	4679.7	4728.3	5872.7	5153.5
50°	7410.4	7363.4	6886.2	6210.1	5905.5	5773.9	5407.0	5227.6	5240.8	6453.6	5766.5
52.5°	7348.7	7342.0	7023.7	6475.7	6302.1	6392.7	6257.8	6015.1	5886.7	7098.5	6428.0
55°	7203.0	7217.1	7101.8	6785.1	6755.4	6989.9	7369.2	7189.9	6790.8	7749.3	7111.7
57.5°	6697.0	6733.2	6986.7	7174.3	7485.2	7834.1	8264.3	8213.4	7764.1	8452.8	7924.6
60°	5395.5	5479.4	6159.0	7098.5	8236.4	9327.3	9519.9	9401.4	8767.8	9325.7	8998.2
62.5°	3780.4	3867.7	4675.6	6145.8	8113.0	11013.9	11764.3	11253.3	10209.2	10611.6	10387.8
65°	2023.9	2065.9	2683.0	4264.3	6849.2	11361.9	15044.5	14267.1	12491.7	12197.0	11576.6
67.5°	1116.5	1139.5	1375.7	2153.1	4386.9	10005.2	17134.2	17721.8	15343.9	13252.7	11360.3
69°	1009.4	1030.8	1185.6	1630.7	2935.5	8272.6	16930.3	18632.5	16594.6	13148.1	10560.7
70°	987.2	1007.0	1146.1	1503.1	2376.0	6818.9	16246.6	18399.7	16892.4	12773.8	9862.9
72.5°	888.6	910.0	1044.9	1350.2	2030.4	3399.5	12869.2	15557.0	15336.7	11075.7	7481.2
75°	828.4	848.2	1077.0	1322.1	1944.1	2151.4	8484.0	11465.6	11273.9	7747.7	4033.8
77.5°	354.7	352.9	499.4	1118.8	1972.9	2083.2	4558.8	7162.7	6535.0	3311.5	1158.5
80°	237.0	232.8	237.0	329.0	1809.1	2094.7	2388.5	3635.7	2746.3	844.1	571.1
82.5°	204.1	200.7	208.1	200.7	636.0	2390.8	2030.4	1933.4	1305.6	479.6	283.1
85°	137.4	131.6	179.3	180.2	300.4	2124.3	2287.3	1633.1	1056.3	284.7	139.9
87.5°	65.8	64.1	104.6	127.5	176.1	863.0	2566.1	1673.5	1065.4	145.6	66.7
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: P269314

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL3-7027-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4339.9	4339.9	4339.9	4339.9	4339.9	4339.9	4339.9	4339.9	4339.9	4339.9	4339.9
2.5°	4298.0	4264.3	4231.3	4191.9	4150.7	4104.6	4081.5	4058.5	4052.9	4046.2	4023.1
5°	4179.5	4131.8	4049.5	3959.0	3863.6	3770.5	3699.8	3655.5	3621.6	3604.4	3573.9
7.5°	4026.5	3956.6	3812.5	3656.2	3495.8	3349.3	3222.7	3142.8	3067.2	3031.8	2991.4
10°	3880.9	3776.4	3552.5	3322.2	3091.8	2870.5	2662.3	2515.2	2384.3	2311.1	2259.2
12.5°	3755.8	3612.7	3302.4	2990.6	2674.8	2359.6	2047.7	1802.5	1597.7	1490.0	1434.9
15°	3634.1	3461.2	3064.7	2669.0	2263.3	1834.7	1425.0	1146.9	977.4	910.0	886.8
17.5°	3523.8	3302.4	2826.1	2344.8	1838.8	1320.5	957.7	804.6	739.7	717.4	710.0
20°	3404.4	3142.0	2578.4	2005.8	1396.1	923.1	747.8	680.3	654.1	647.5	644.3
22.5°	3289.4	2984.1	2341.5	1643.0	1002.9	712.4	642.6	614.6	610.5	616.2	616.2
25°	3191.4	2842.5	2085.7	1263.7	736.3	599.8	575.0	568.4	584.2	605.5	609.6
27.5°	3118.1	2726.5	1813.3	933.0	586.7	521.6	520.7	531.4	570.2	611.2	619.6
30°	3068.0	2616.4	1522.1	673.0	492.0	459.0	472.2	495.2	552.1	610.5	626.1
32.5°	3042.5	2534.8	1218.6	520.7	421.2	403.1	425.3	453.4	509.2	563.5	584.2
35°	3062.2	2474.8	932.1	434.4	371.9	357.9	380.9	408.1	441.0	464.1	479.6
37.5°	3136.3	2450.9	703.5	389.1	338.1	324.9	343.2	358.8	371.9	378.5	385.8
40°	3295.9	2476.4	563.5	366.1	319.2	302.8	310.2	315.9	324.2	330.8	334.0
42.5°	3531.1	2553.0	505.1	357.0	309.3	285.5	283.9	286.3	297.0	309.3	311.8
45°	3860.2	2687.9	501.1	362.8	304.4	271.5	264.1	267.3	283.9	302.8	306.1
47.5°	4280.8	2893.6	534.0	380.2	308.5	264.1	251.7	255.8	276.5	301.9	306.1
50°	4789.9	3180.7	589.1	405.7	326.7	265.8	247.7	250.1	271.5	299.4	303.5
52.5°	5391.4	3587.9	649.1	430.3	345.6	276.5	250.9	245.1	264.9	289.7	294.6
55°	6060.2	4110.4	710.9	452.4	355.4	289.7	257.5	238.6	252.6	273.2	277.2
57.5°	6881.3	4841.0	817.7	473.9	361.9	298.6	264.1	232.0	237.0	251.7	255.1
60°	7992.8	5874.3	1006.2	509.2	376.7	301.9	263.3	226.3	221.3	229.5	231.3
62.5°	9324.9	6996.4	1163.3	553.6	401.5	304.4	258.4	222.2	208.1	208.1	209.8
65°	10115.5	7296.8	1076.1	590.7	422.1	301.9	252.6	218.0	198.3	189.3	190.0
67.5°	9445.0	6417.3	922.3	598.1	421.2	290.4	243.5	210.7	188.5	174.5	173.6
69°	8605.0	5537.1	853.2	578.4	401.5	275.6	232.0	202.4	181.0	166.1	165.4
70°	7927.8	4999.7	807.9	556.9	380.2	264.9	223.0	195.0	175.2	161.2	159.5
72.5°	5764.1	3276.1	690.3	478.8	313.5	222.2	192.5	171.1	156.3	148.1	146.5
75°	2880.3	1562.4	560.4	388.3	240.2	177.8	157.9	143.2	135.7	134.0	133.3
77.5°	946.2	715.8	400.6	289.7	178.6	139.1	127.5	116.8	115.3	120.2	118.4
80°	519.9	416.4	254.2	191.7	121.8	102.0	100.4	94.6	97.0	105.3	103.7
82.5°	264.9	216.4	157.2	115.3	82.3	73.2	79.8	76.5	79.8	87.2	86.3
85°	130.9	118.4	99.5	70.0	54.3	46.9	56.8	59.3	60.8	66.7	66.7
87.5°	75.6	70.0	52.6	32.9	27.2	24.7	32.9	32.1	37.9	41.1	40.3
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)