

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: P269237

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3-7027-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269237  
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-04-LED-E1-SL3-7027-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 800mA 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: 14399.3 lumens  
Efficiency: N/A  
Efficacy: 84.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G3

Input Watts (W): 171  
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

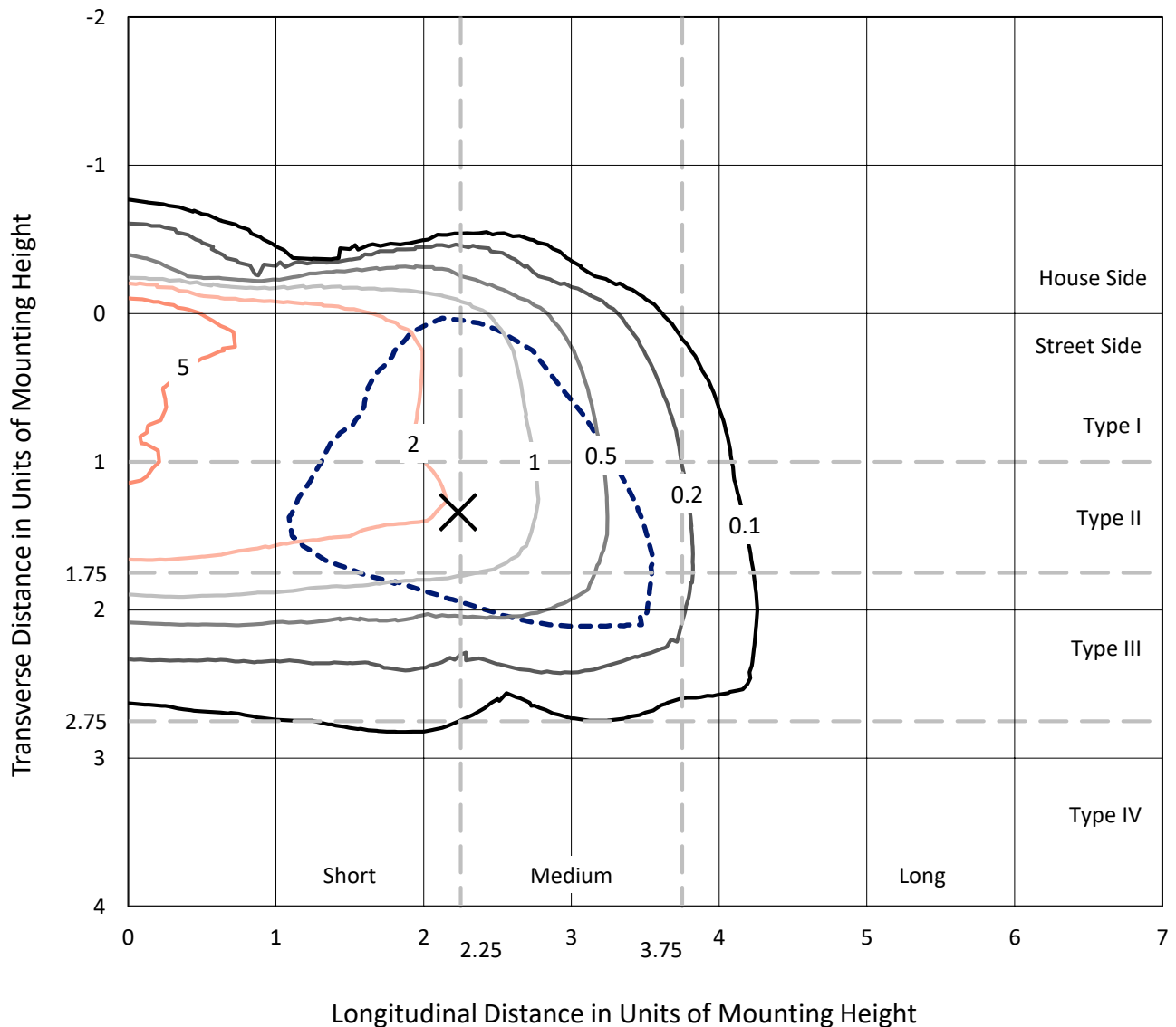


REPORT NUMBER: P269237

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL3-7027-800-HSS

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

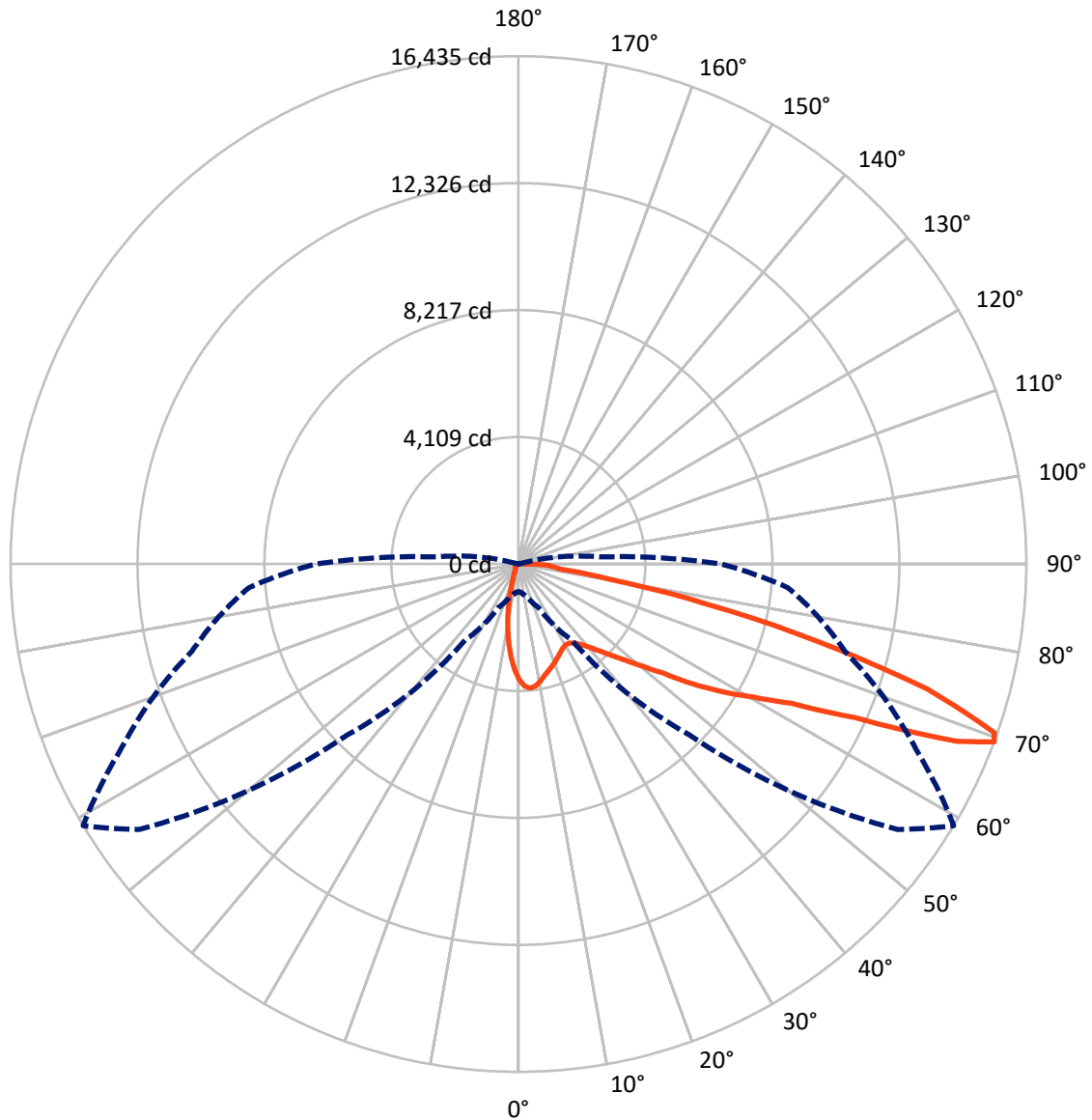


Based on 20 foot mounting height. Maximum calculated value = 9.4 fc  
 Type III - Short - Non-Cutoff

REPORT NUMBER: P269237

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL3-7027-800-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P269237

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL3-7027-800-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1172.6	0.0	1172.6
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	13226.7	0.0	13226.7
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	14399.3	0.0	14399.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	304.2	2.1
10°-20°	628.6	4.4
20°-30°	845.9	5.9
30°-40°	1228.1	8.5
40°-50°	2045.0	14.2
50°-60°	3190.1	22.2
60°-70°	3947.5	27.4
70°-80°	2000.6	13.9
80°-90°	209.3	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°	14399.3	100.0
0°-180°	14399.3	100.0



REPORT NUMBER: P269237

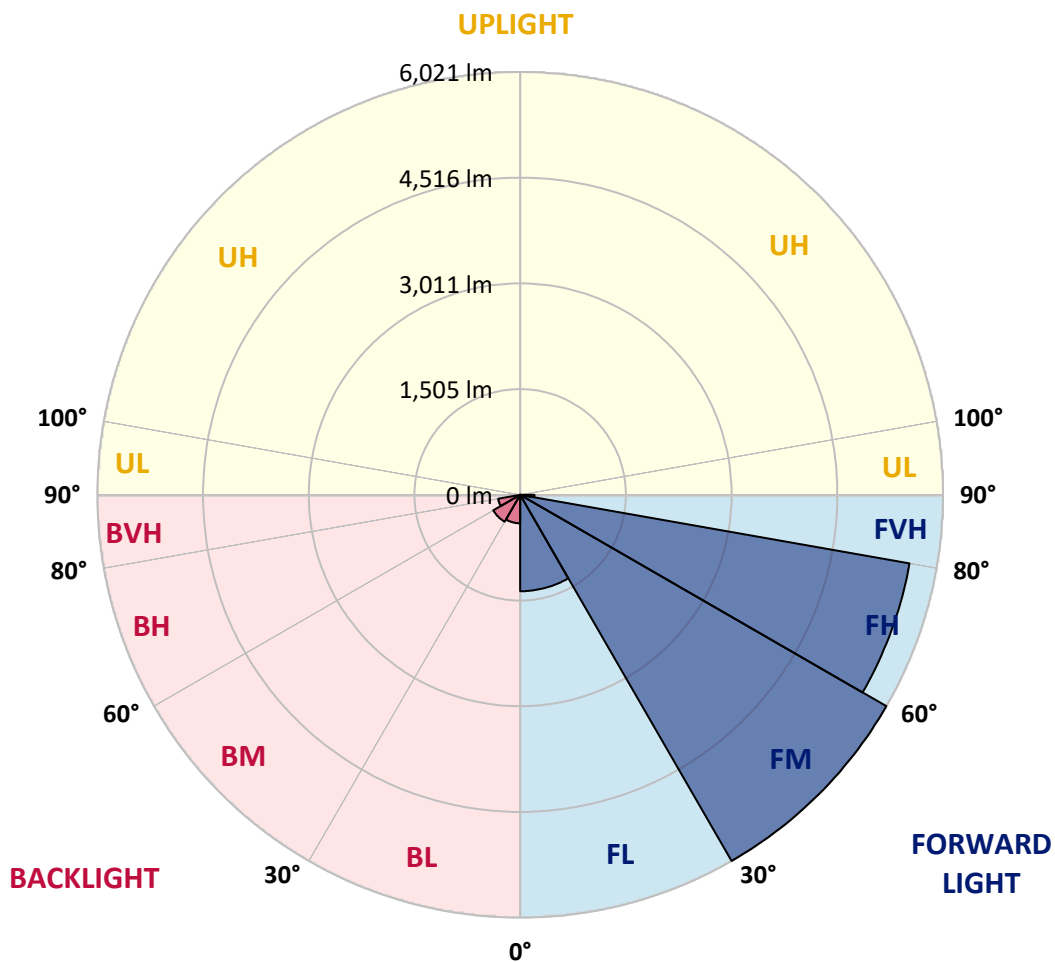
CATALOG NUMBER: GLEON-AF-04-LED-E1-SL3-7027-800-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1372.8	9.5			
FM	(30°-60°)	6021.4	41.8			
FH	(60°-80°)	5629.6	39.1			G3/7500
FVH	(80°-90°)	202.9	1.4			G2/225
BL	(0°-30°)	405.9	2.8	B1/500		
BM	(30°-60°)	441.8	3.1	B1/1000		
BH	(60°-80°)	318.5	2.2	B1/500		G1/500
BVH	(80°-90°)	6.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type III Short





REPORT NUMBER: P269237

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL3-7027-800-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3748.0	3748.0	3748.0	3748.0	3748.0	3748.0	3748.0	3748.0	3748.0	3748.0	3748.0
2.5°	4107.8	4106.2	4088.2	4080.1	4065.5	4034.6	3986.5	3961.3	3920.6	3849.7	3754.5
5°	4070.4	4090.0	4100.6	4101.3	4111.9	4100.6	4057.4	4036.2	3980.0	3866.0	3695.0
7.5°	3816.3	3823.6	3853.8	3879.9	3930.4	3978.4	3993.9	3984.9	3951.6	3829.4	3602.3
10°	3544.4	3551.7	3587.6	3621.7	3690.1	3764.3	3842.4	3858.7	3872.6	3777.3	3512.6
12.5°	3309.9	3317.3	3353.8	3398.6	3478.4	3569.7	3691.0	3717.8	3778.9	3727.5	3441.0
15°	3108.0	3111.2	3147.0	3202.4	3297.7	3414.9	3552.5	3595.6	3689.2	3692.6	3378.3
17.5°	2936.1	2944.3	2966.3	3019.3	3123.4	3268.4	3428.8	3490.6	3600.5	3663.3	3317.3
20°	2831.1	2839.3	2838.5	2867.7	2961.4	3116.1	3305.0	3379.1	3512.6	3633.1	3262.6
22.5°	2810.7	2810.7	2789.5	2785.6	2840.9	2970.3	3176.3	3266.7	3433.6	3620.1	3224.3
25°	2883.2	2880.0	2827.1	2783.8	2786.4	2863.6	3051.7	3159.2	3366.8	3629.1	3204.1
27.5°	3036.4	3032.1	2965.5	2883.2	2817.3	2816.5	2957.3	3072.9	3313.9	3671.5	3212.2
30°	3248.0	3246.4	3173.9	3070.4	2950.8	2840.9	2924.7	3029.8	3279.7	3748.0	3230.9
32.5°	3479.2	3476.8	3422.3	3313.2	3161.7	2950.8	2958.9	3047.0	3289.6	3849.7	3276.5
35°	3724.4	3720.3	3696.6	3601.3	3434.5	3153.5	3071.3	3139.7	3351.3	4001.9	3366.0
37.5°	3989.8	3993.9	4010.9	3919.8	3744.7	3437.8	3259.4	3305.9	3476.0	4208.7	3511.8
40°	4381.5	4380.7	4386.3	4266.6	4098.1	3785.4	3522.4	3537.0	3684.4	4483.3	3733.3
42.5°	5092.2	5042.5	4891.9	4647.7	4478.3	4182.8	3853.8	3838.3	3939.2	4822.7	4043.5
45°	6047.4	5941.5	5550.6	5082.5	4865.8	4630.6	4261.6	4212.1	4276.4	5230.7	4426.2
47.5°	6868.9	6758.9	6206.1	5535.1	5277.2	5055.7	4739.6	4650.2	4671.2	5687.4	4911.6
50°	7148.3	7094.5	6611.6	5929.4	5675.2	5590.5	5294.3	5185.0	5155.0	6215.9	5474.1
52.5°	7051.3	7047.3	6725.6	6185.0	6040.1	6144.2	5992.0	5865.8	5755.0	6772.9	6046.5
55°	6895.7	6916.1	6772.1	6408.9	6403.9	6650.0	6946.2	6841.2	6520.4	7377.8	6540.0
57.5°	6466.7	6553.9	6746.0	6832.2	7032.7	7284.1	7741.0	7802.9	7423.5	7841.1	6949.6
60°	5247.0	5438.2	6067.0	6893.4	7842.7	8469.7	8700.2	8753.1	8164.3	8226.3	7502.5
62.5°	3724.4	3919.8	4716.9	6114.9	7855.0	10027.3	10129.2	9921.5	8980.3	8797.0	8455.8
65°	1977.0	2127.6	2778.9	4414.0	6810.3	10388.9	12628.1	12009.3	10419.8	9919.9	9687.9
67.5°	1011.3	1056.9	1315.7	2160.2	4681.8	9227.7	14867.9	15303.6	12900.7	11033.7	9628.4
69°	894.8	921.8	1093.5	1561.8	2998.1	7816.0	14977.1	16434.6	14199.5	10940.9	8749.9
70°	866.3	890.0	1046.3	1413.6	2343.4	6554.7	14559.4	16335.3	14531.7	10587.6	8093.5
72.5°	735.3	755.7	931.5	1249.1	1904.4	3253.8	11826.8	13842.1	13040.1	8819.7	5858.4
75°	491.8	558.6	894.1	1170.9	1771.7	1848.4	7797.2	10002.9	9292.1	5948.8	3051.7
77.5°	118.0	127.0	252.5	931.5	1620.4	1626.8	4010.2	6218.3	5071.9	2120.3	721.3
80°	63.5	61.1	70.8	184.8	1508.9	1526.7	1805.1	3018.3	1810.9	351.7	237.7
82.5°	44.7	42.3	45.6	77.3	474.8	1390.8	1306.0	1366.3	750.8	135.1	106.7
85°	16.3	15.5	25.2	70.0	148.9	799.6	1341.9	1127.0	608.2	61.9	78.2
87.5°	5.7	4.9	9.8	38.3	45.6	340.4	828.1	851.8	239.4	37.5	36.7
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: P269237

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL3-7027-800-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3748.0	3748.0	3748.0	3748.0	3748.0	3748.0	3748.0	3748.0	3748.0	3748.0	3748.0
2.5°	3714.5	3664.0	3571.2	3476.0	3388.0	3282.1	3229.2	3177.1	3155.1	3147.0	3108.8
5°	3607.1	3521.5	3324.5	3126.7	2944.3	2750.5	2622.6	2520.0	2459.7	2430.5	2384.1
7.5°	3469.4	3329.4	3030.6	2725.3	2441.1	2161.1	1953.4	1793.7	1683.9	1631.0	1582.9
10°	3335.9	3149.5	2724.4	2308.4	1922.5	1551.2	1264.5	1056.9	924.1	863.1	824.0
12.5°	3216.2	2974.4	2428.8	1902.2	1417.5	982.7	691.2	526.0	443.8	415.2	401.5
15°	3109.7	2813.2	2149.6	1516.1	960.0	561.8	377.7	321.7	308.6	308.6	307.0
17.5°	3008.7	2655.2	1880.2	1153.8	602.6	343.6	287.4	280.1	280.1	283.3	283.3
20°	2911.8	2504.7	1619.6	828.1	379.4	272.7	259.7	258.2	259.7	263.8	263.8
22.5°	2828.7	2367.8	1376.1	568.4	281.7	245.9	239.4	237.0	237.7	240.1	241.9
25°	2766.8	2252.2	1146.4	385.2	242.6	223.9	216.6	212.4	209.2	209.2	210.9
27.5°	2727.8	2154.4	924.1	280.1	218.2	203.6	192.1	185.6	178.4	174.2	175.9
30°	2699.1	2061.7	715.7	228.8	195.4	180.7	166.0	155.5	144.9	140.0	141.8
32.5°	2688.5	1986.7	534.9	201.8	175.1	158.8	140.9	127.0	115.6	111.6	112.4
35°	2717.2	1927.4	391.7	182.4	158.8	138.3	118.0	102.5	93.7	91.2	91.9
37.5°	2792.0	1895.6	293.1	166.0	144.1	121.4	98.5	83.8	78.2	78.2	79.1
40°	2933.8	1894.7	235.4	154.7	131.2	105.0	81.4	70.8	67.6	69.2	70.0
42.5°	3140.6	1938.0	205.3	144.1	119.7	89.7	67.6	60.2	59.5	61.1	61.9
45°	3423.0	2016.9	189.0	135.1	107.4	74.9	57.0	52.1	52.1	54.5	55.3
47.5°	3769.1	2132.4	175.1	126.2	95.3	62.7	48.9	45.6	46.4	48.9	49.6
50°	4186.0	2278.2	161.2	116.4	86.2	52.1	42.3	40.0	40.8	43.9	44.7
52.5°	4660.6	2474.6	149.7	107.4	74.9	43.2	35.8	34.1	35.8	39.0	40.0
55°	5067.8	2650.4	136.0	100.2	60.2	35.8	29.4	29.4	30.9	35.0	35.8
57.5°	5459.4	2834.3	123.7	86.2	47.3	28.4	24.4	25.2	27.7	31.8	32.6
60°	6034.4	3146.3	109.1	72.5	35.8	22.7	20.3	21.2	24.4	28.4	29.4
62.5°	7010.6	3620.9	94.4	60.2	27.7	18.0	16.3	18.0	22.0	26.9	27.7
65°	7891.6	3813.9	77.3	50.5	21.2	13.8	13.8	16.3	21.2	26.1	26.9
67.5°	7400.6	3210.5	60.2	40.0	16.3	10.6	11.4	15.5	20.3	26.1	26.9
69°	6544.8	2625.0	51.4	31.8	13.8	9.8	10.6	15.5	20.3	25.2	26.1
70°	5878.0	2216.4	45.6	26.9	12.1	9.8	10.6	14.6	20.3	25.2	26.1
72.5°	3936.8	1196.9	36.7	19.6	11.4	9.0	9.0	14.6	19.6	24.4	25.2
75°	1692.0	330.5	29.4	13.8	9.8	8.2	8.2	13.8	18.8	23.6	25.2
77.5°	309.3	83.8	23.6	12.1	9.8	8.2	7.4	13.0	18.0	22.7	23.6
80°	123.0	41.5	18.8	10.6	9.0	7.4	6.5	12.1	17.1	22.0	22.7
82.5°	74.1	23.6	15.5	9.8	9.0	6.5	5.7	10.6	16.3	21.2	22.0
85°	60.2	16.3	12.1	9.8	8.2	6.5	4.9	9.8	14.6	20.3	21.2
87.5°	29.4	11.4	11.4	9.0	8.2	6.5	4.9	9.0	13.8	19.6	20.3
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)