

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: P193693

Luminaire Tested: **GLEON-AF-05-LED-E1-SL3-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193693
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-SL3-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 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: 15996 lumens
Efficiency: N/A
Efficacy: 98.7 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

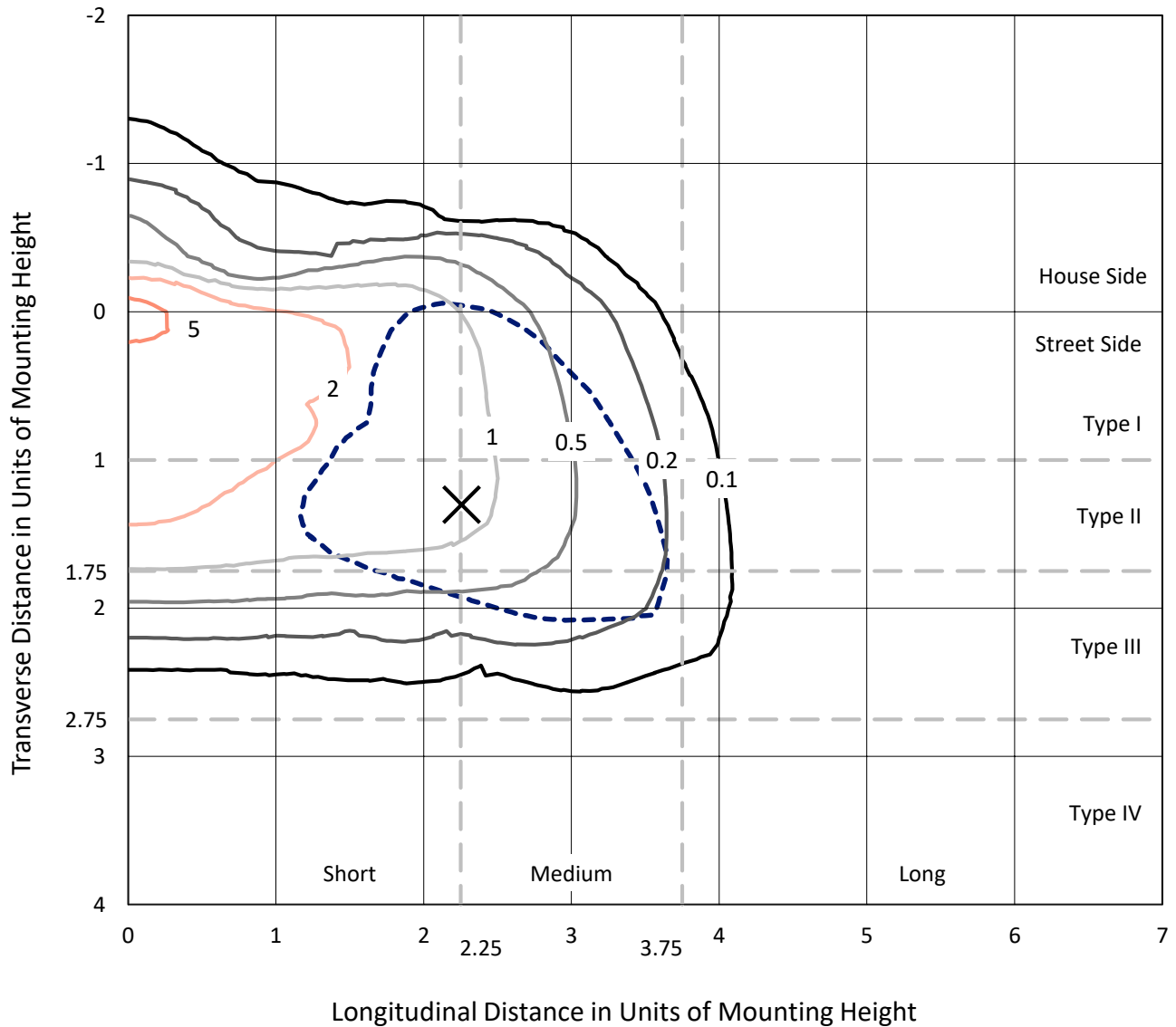
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

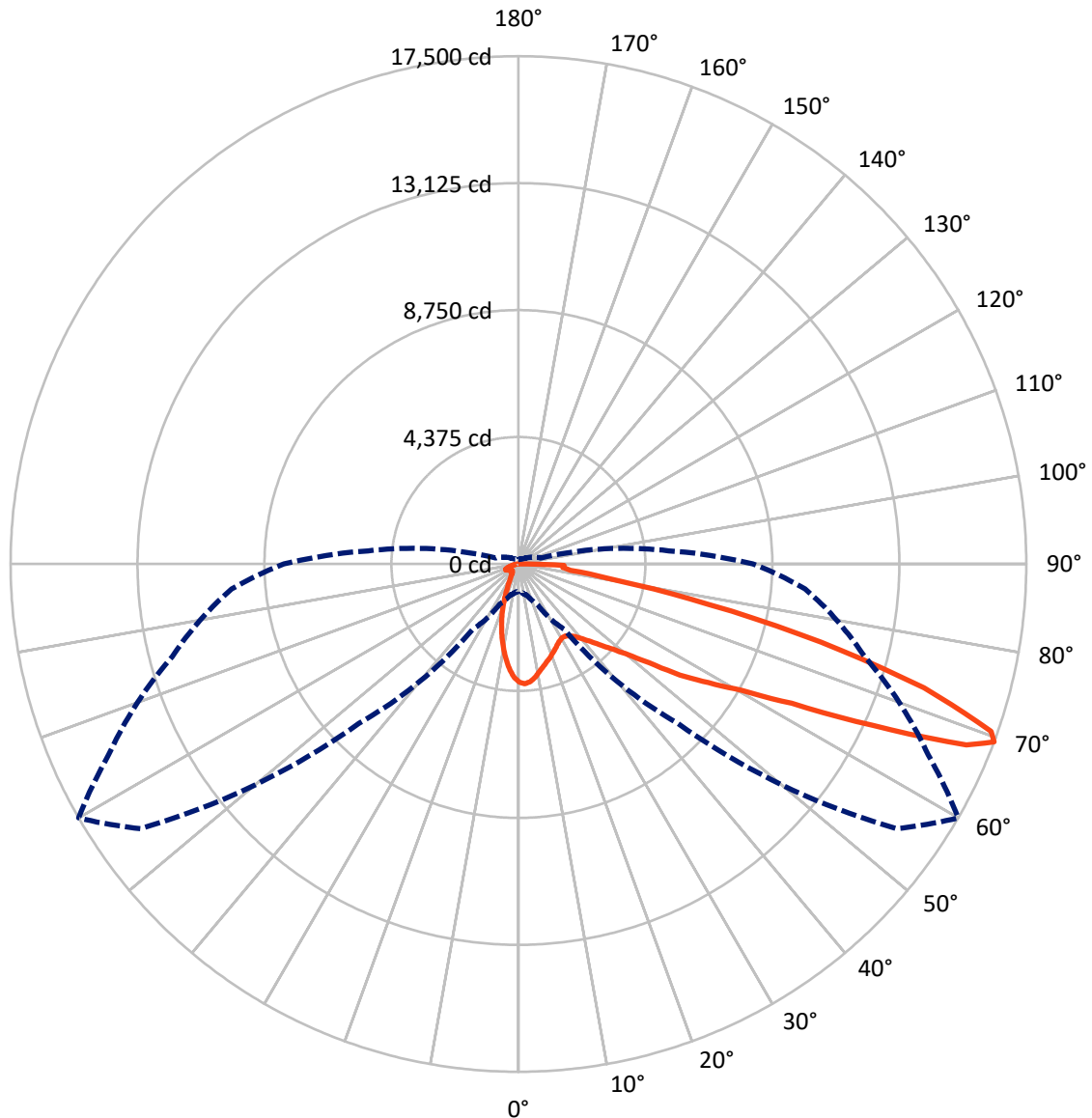
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Medium - Non-Cutoff

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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	2275.7	0.0	2275.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	13720.3	0.0	13720.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	15996.0	0.0	15996.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.6	2.2
10°-20°	734.3	4.6
20°-30°	935.6	5.8
30°-40°	1286.2	8.0
40°-50°	2087.0	13.0
50°-60°	3347.0	20.9
60°-70°	4454.7	27.8
70°-80°	2405.2	15.0
80°-90°	401.3	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°	15996.0	100.0
0°-180°	15996.0	100.0



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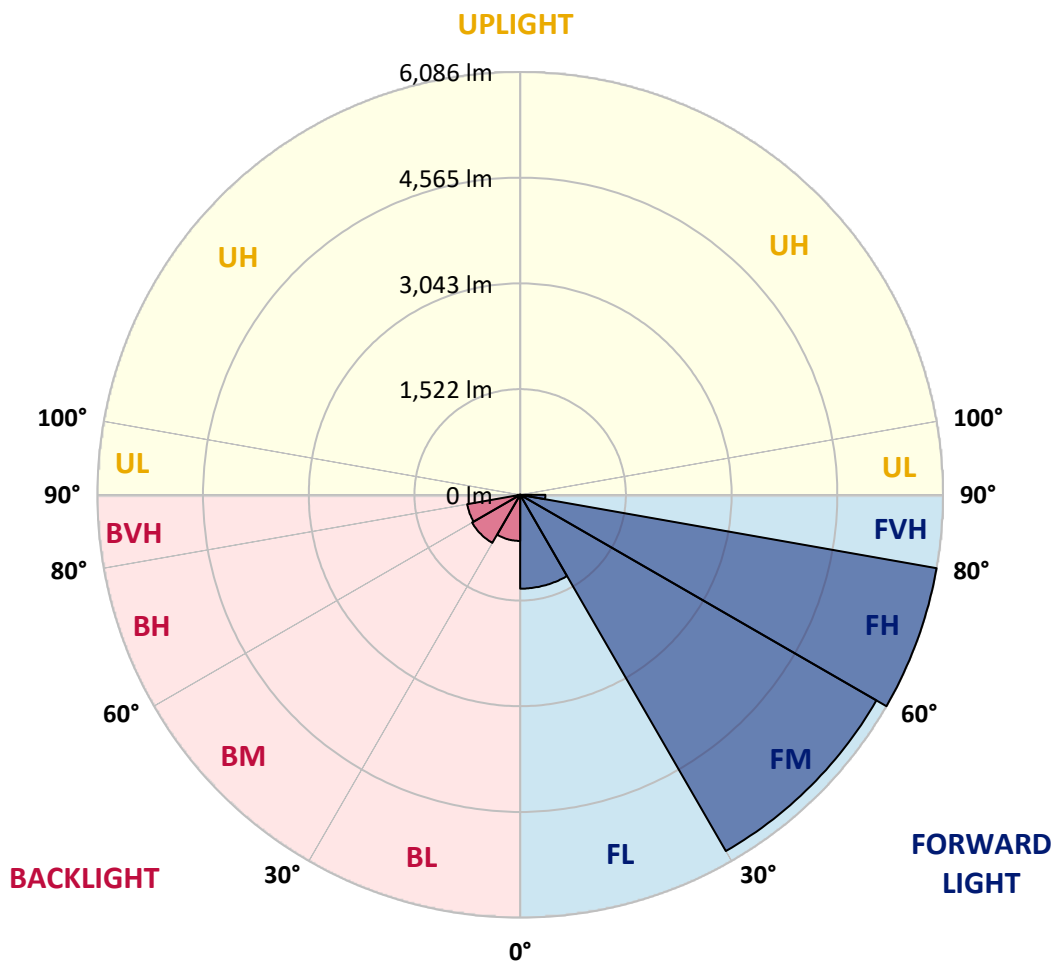
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1350.6	8.4			
FM	(30°-60°)	5920.8	37.0			
FH	(60°-80°)	6086.2	38.0			G3/7500
FVH	(80°-90°)	362.7	2.3			G3/500
BL	(0°-30°)	663.9	4.2	B2/1000		
BM	(30°-60°)	799.5	5.0	B1/1000		
BH	(60°-80°)	773.7	4.8	B2/1000		G2/1000
BVH	(80°-90°)	38.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	4076.0	4076.0	4076.0	4076.0	4076.0	4076.0	4076.0	4076.0	4076.0	4076.0	4076.0
2.5°	4159.5	4168.7	4164.9	4162.6	4169.5	4158.7	4136.3	4129.3	4118.5	4093.0	4049.8
5°	4003.4	4031.2	4029.7	4050.5	4085.3	4094.6	4084.5	4086.1	4066.0	4034.3	3962.4
7.5°	3733.7	3745.3	3751.5	3797.1	3860.4	3911.4	3954.7	3968.6	3959.3	3932.3	3839.6
10°	3455.5	3464.8	3479.5	3532.8	3613.2	3683.5	3765.4	3812.5	3832.6	3828.0	3724.4
12.5°	3216.8	3226.0	3245.4	3305.6	3401.5	3488.0	3607.0	3665.7	3713.6	3742.2	3630.9
15°	3002.7	3022.8	3041.4	3110.9	3218.3	3331.9	3466.4	3540.5	3614.7	3678.9	3548.3
17.5°	2835.8	2855.9	2866.7	2930.1	3044.5	3183.5	3341.2	3428.5	3521.2	3626.3	3466.4
20°	2739.2	2748.5	2743.9	2779.4	2882.2	3029.8	3216.8	3318.0	3430.0	3576.9	3384.5
22.5°	2712.2	2713.0	2696.0	2692.1	2758.6	2883.0	3083.9	3206.7	3344.3	3544.4	3314.1
25°	2777.9	2775.6	2729.2	2691.3	2698.3	2770.9	2955.6	3098.6	3272.4	3537.4	3260.0
27.5°	2923.9	2930.9	2862.1	2791.0	2720.7	2718.4	2858.2	3008.9	3213.7	3569.1	3236.9
30°	3128.7	3140.3	3066.9	2976.5	2844.3	2735.4	2820.4	2955.6	3177.4	3634.8	3233.0
32.5°	3352.8	3365.1	3309.5	3214.5	3041.4	2840.5	2846.6	2960.2	3175.8	3726.8	3259.3
35°	3591.5	3605.4	3576.9	3496.5	3304.1	3034.4	2947.1	3035.2	3226.0	3867.4	3329.6
37.5°	3858.1	3879.8	3887.5	3811.0	3605.4	3290.2	3111.7	3177.4	3339.6	4062.9	3458.6
40°	4242.2	4272.3	4270.0	4160.2	3950.8	3635.6	3365.9	3382.9	3516.6	4324.1	3664.9
42.5°	4977.8	4984.0	4791.5	4552.8	4331.0	3998.8	3665.7	3651.8	3760.8	4654.8	3968.6
45°	5913.5	5888.0	5459.9	4998.6	4728.2	4416.0	4055.9	3987.9	4070.6	5058.1	4348.8
47.5°	6690.1	6631.4	6090.5	5453.8	5148.5	4869.6	4514.1	4395.2	4440.7	5515.6	4840.2
50°	6959.8	6915.7	6467.5	5832.4	5546.5	5422.9	5078.2	4909.8	4922.1	6061.1	5415.9
52.5°	6901.8	6895.6	6596.6	6082.0	5918.9	6003.9	5877.2	5649.3	5528.7	6666.9	6037.2
55°	6765.0	6778.2	6670.0	6372.5	6344.7	6564.9	6921.1	6752.7	6377.9	7278.1	6679.3
57.5°	6289.8	6323.8	6561.8	6738.0	7030.1	7357.7	7761.8	7713.9	7292.0	7938.8	7442.7
60°	5067.4	5146.2	5784.5	6666.9	7735.6	8760.2	8941.0	8829.7	8234.7	8758.6	8451.1
62.5°	3550.6	3632.5	4391.3	5772.1	7619.7	10344.2	11048.9	10569.1	9588.5	9966.4	9756.2
65°	1900.9	1940.3	2519.8	4004.9	6432.8	10671.1	14129.7	13399.5	11732.0	11455.4	10872.7
67.5°	1048.6	1070.2	1292.0	2022.2	4120.1	9396.9	16092.4	16644.1	14411.0	12446.7	10669.5
69°	948.1	968.2	1113.5	1531.5	2757.0	7769.6	15900.7	17499.5	15585.5	12348.6	9918.5
70°	927.2	945.8	1076.4	1411.7	2231.6	6404.2	15258.6	17280.8	15865.2	11997.0	9263.2
72.5°	834.5	854.6	981.3	1268.0	1907.0	3192.8	12086.7	14611.1	14404.0	10402.2	7026.2
75°	778.1	796.7	1011.5	1241.7	1825.9	2020.6	7968.1	10768.4	10588.4	7276.6	3788.6
77.5°	333.0	331.5	469.0	1050.9	1852.9	1956.5	4281.6	6727.2	6137.6	3110.1	1088.0
80°	222.5	218.7	222.5	309.1	1699.2	1967.3	2243.2	3414.6	2579.3	792.8	536.3
82.5°	191.6	188.5	195.5	188.5	597.3	2245.5	1907.0	1815.9	1226.3	450.5	265.8
85°	129.0	123.6	168.4	169.2	282.0	1995.1	2148.1	1533.8	992.2	267.4	131.4
87.5°	61.8	60.3	98.1	119.8	165.4	810.6	2410.1	1571.7	1000.7	136.8	62.6
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°	4076.0	4076.0	4076.0	4076.0	4076.0	4076.0	4076.0	4076.0	4076.0	4076.0	4076.0
2.5°	4036.6	4004.9	3974.0	3936.9	3898.3	3855.0	3833.4	3811.8	3806.3	3800.2	3778.5
5°	3925.3	3880.5	3803.3	3718.3	3628.6	3541.3	3474.9	3433.1	3401.5	3385.2	3356.6
7.5°	3781.6	3715.9	3580.7	3433.9	3283.2	3145.7	3026.7	2951.7	2880.6	2847.4	2809.6
10°	3644.9	3546.7	3336.5	3120.2	2903.8	2696.0	2500.5	2362.2	2239.3	2170.5	2121.9
12.5°	3527.4	3393.0	3101.6	2808.8	2512.1	2216.1	1923.3	1693.0	1500.6	1399.4	1347.6
15°	3413.0	3250.8	2878.3	2506.7	2125.7	1723.1	1338.3	1077.2	918.0	854.6	833.0
17.5°	3309.5	3101.6	2654.2	2202.2	1727.0	1240.2	899.4	755.7	694.7	673.8	666.8
20°	3197.5	2951.0	2421.7	1883.9	1311.3	867.0	702.4	639.0	614.3	608.1	605.0
22.5°	3089.3	2802.6	2199.1	1543.1	941.9	669.2	603.5	577.2	573.3	578.8	578.8
25°	2997.3	2669.7	1958.8	1186.9	691.6	563.3	540.1	533.9	548.6	568.7	572.6
27.5°	2928.6	2560.7	1703.0	876.2	550.9	489.9	489.1	499.2	535.5	574.1	581.8
30°	2881.4	2457.2	1429.5	632.1	462.1	431.2	443.5	465.2	518.5	573.3	588.0
32.5°	2857.5	2380.7	1144.4	489.1	395.6	378.6	399.5	425.8	478.3	529.3	548.6
35°	2876.0	2324.3	875.5	408.0	349.3	336.1	357.8	383.3	414.2	435.8	450.5
37.5°	2945.6	2301.9	660.7	365.5	317.6	305.2	322.2	336.9	349.3	355.4	362.4
40°	3095.5	2325.8	529.3	343.9	299.8	284.4	291.3	296.7	304.4	310.6	313.7
42.5°	3316.5	2397.7	474.4	335.4	290.5	268.1	266.6	268.9	278.9	290.5	292.9
45°	3625.5	2524.4	470.6	340.8	285.9	255.0	248.0	251.1	266.6	284.4	287.4
47.5°	4020.4	2717.6	501.5	357.0	289.8	248.0	236.4	240.3	259.6	283.6	287.4
50°	4498.7	2987.3	553.3	380.9	306.8	249.6	232.6	234.9	255.0	281.3	285.1
52.5°	5063.5	3369.8	609.7	404.1	324.5	259.6	235.7	230.3	248.8	272.0	276.6
55°	5691.8	3860.4	667.6	425.0	333.8	272.0	241.9	224.1	237.2	256.5	260.4
57.5°	6462.9	4546.6	768.1	445.1	340.0	280.5	248.0	217.9	222.5	236.4	239.5
60°	7506.8	5517.1	945.0	478.3	353.9	283.6	247.3	212.5	207.9	215.6	217.1
62.5°	8757.8	6571.1	1092.6	520.0	377.1	285.9	242.6	208.6	195.5	195.5	197.0
65°	9500.4	6853.1	1010.7	554.8	396.4	283.6	237.2	204.8	186.2	177.7	178.5
67.5°	8870.7	6027.1	866.2	561.8	395.6	272.8	228.7	197.8	176.9	163.8	163.0
69°	8081.7	5200.3	801.3	543.2	377.1	258.9	217.9	190.1	170.0	156.1	155.3
70°	7445.8	4695.7	758.8	523.1	357.0	248.8	209.4	183.1	164.6	151.5	149.9
72.5°	5413.6	3076.9	648.3	449.7	294.4	208.6	180.8	160.7	146.8	139.1	137.5
75°	2705.2	1467.4	526.2	364.7	225.6	166.9	148.4	134.5	127.5	126.0	125.2
77.5°	888.6	672.3	376.3	272.0	167.7	130.6	119.8	109.7	108.2	112.8	111.3
80°	488.4	391.0	238.8	180.0	114.4	95.8	94.3	88.9	91.2	98.9	97.4
82.5°	248.8	203.2	147.6	108.2	77.3	68.8	75.0	71.9	75.0	81.9	81.1
85°	122.9	111.3	93.5	65.7	51.0	44.0	53.3	55.6	57.2	62.6	62.6
87.5°	71.1	65.7	49.5	30.9	25.5	23.2	30.9	30.1	35.5	38.6	37.9
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)