

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: P269404

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269404
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-SL4-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23746 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
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: 25 FT

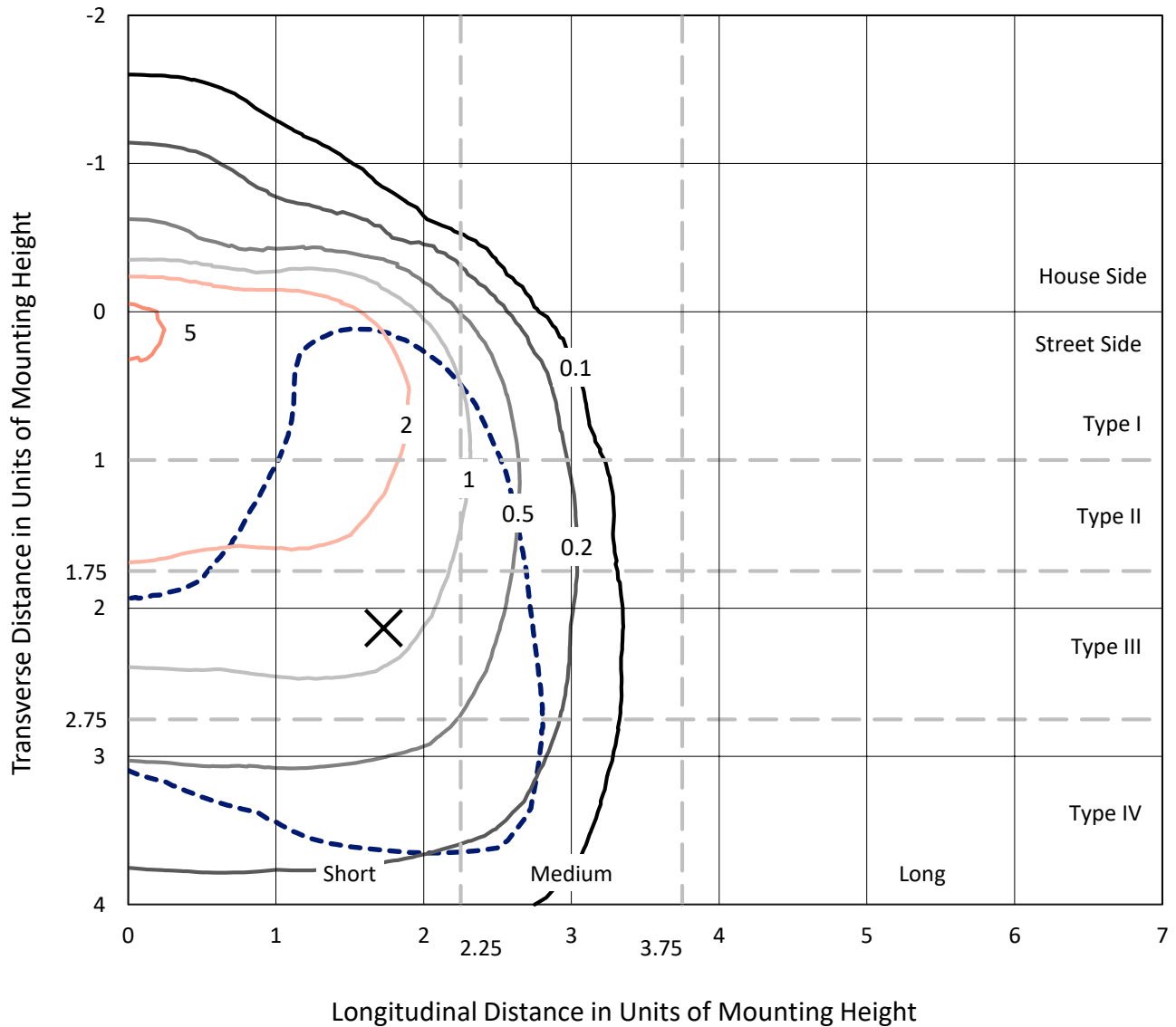


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

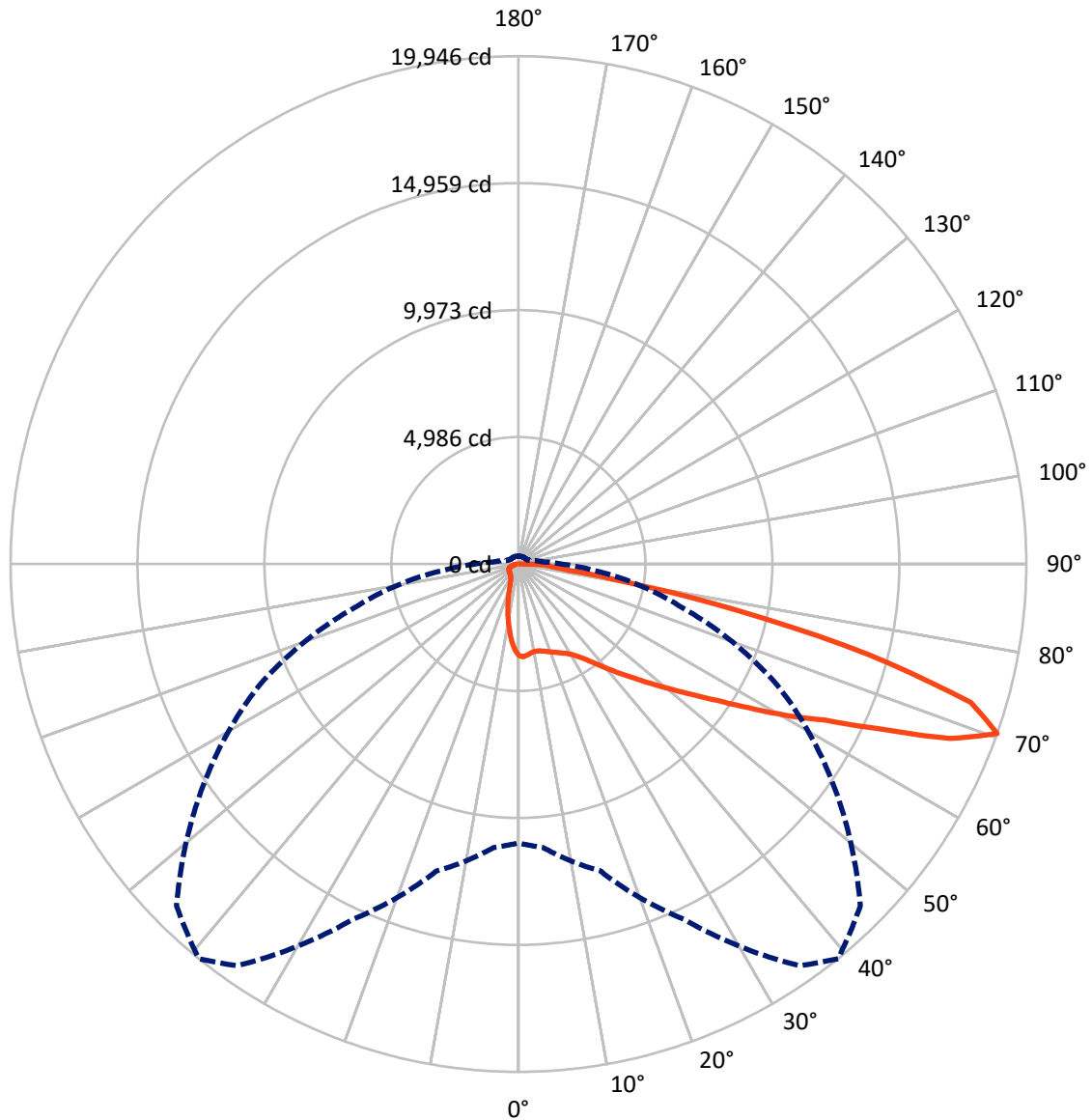


Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2700.7	0.0	2700.7
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	21045.2	0.0	21045.2
	% Fixture	88.6	0.0	88.6
Total	Lumens	23746.0	0.0	23746.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.4	1.3
10°-20°	773.3	3.3
20°-30°	1204.1	5.1
30°-40°	1875.8	7.9
40°-50°	3149.1	13.3
50°-60°	5002.6	21.1
60°-70°	6672.9	28.1
70°-80°	4029.6	17.0
80°-90°	729.3	3.1
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°	23746.0	100.0
0°-180°	23746.0	100.0



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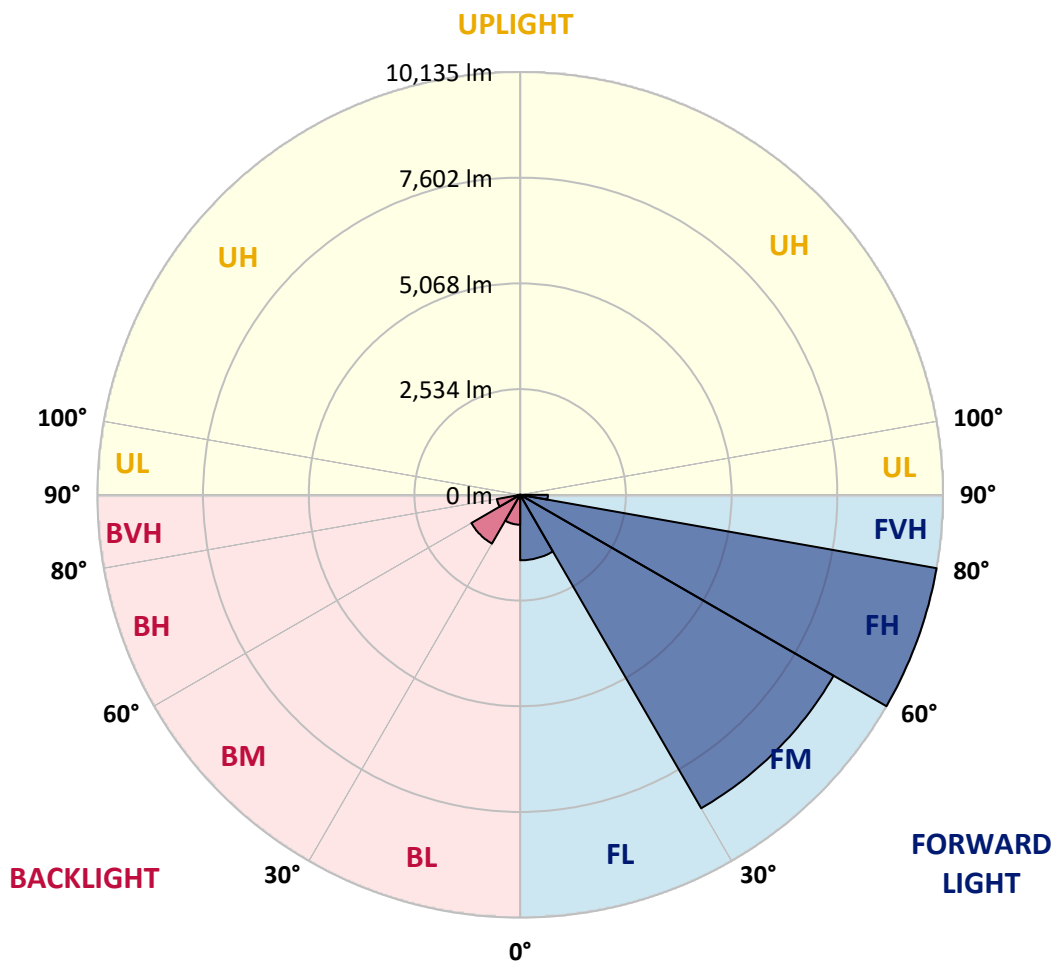
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1570.3	6.6			
FM	(30°-60°)	8675.9	36.5			
FH	(60°-80°)	10135.5	42.7			G4/12000
FVH	(80°-90°)	663.6	2.8			G4/750
BL	(0°-30°)	716.4	3.0	B2/1000		
BM	(30°-60°)	1351.6	5.7	B2/2500		
BH	(60°-80°)	567.0	2.4	B2/1000		G2/1000
BVH	(80°-90°)	65.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3605.0	3605.0	3605.0	3605.0	3605.0	3605.0	3605.0	3605.0	3605.0	3605.0	3605.0
2.5°	3675.1	3673.8	3664.1	3656.9	3650.9	3648.5	3653.2	3635.3	3619.5	3600.1	3579.7
5°	3647.3	3646.0	3630.4	3615.9	3601.3	3596.5	3595.3	3562.8	3543.5	3514.4	3475.8
7.5°	3617.0	3611.0	3590.5	3566.5	3540.9	3528.9	3516.9	3474.6	3452.8	3423.9	3379.2
10°	3585.7	3578.5	3559.2	3535.0	3510.8	3492.7	3472.2	3431.2	3408.2	3386.5	3334.6
12.5°	3553.1	3547.0	3542.2	3531.3	3514.4	3498.8	3483.1	3448.1	3423.9	3398.6	3338.2
15°	3548.2	3545.9	3556.7	3563.9	3554.4	3544.6	3527.7	3497.6	3472.2	3446.8	3368.4
17.5°	3586.9	3585.7	3613.4	3632.7	3628.0	3611.0	3588.1	3554.4	3533.8	3512.1	3414.3
20°	3671.5	3677.4	3711.3	3736.6	3712.4	3688.4	3650.9	3603.8	3593.0	3583.2	3461.3
22.5°	3830.7	3836.8	3860.9	3870.5	3807.8	3772.8	3720.9	3660.6	3653.2	3660.6	3518.1
25°	4079.5	4073.5	4069.9	4033.6	3918.9	3864.6	3798.2	3735.4	3739.0	3771.7	3597.7
27.5°	4409.2	4376.5	4325.8	4217.2	4034.7	3974.5	3893.6	3835.7	3858.5	3921.3	3717.2
30°	4750.7	4714.6	4597.4	4419.9	4186.9	4120.5	4029.9	3964.8	4025.1	4124.2	3876.6
32.5°	5067.1	5062.2	4890.8	4662.7	4397.1	4339.1	4248.5	4174.9	4272.7	4423.6	4115.7
35°	5412.4	5423.2	5218.0	4943.9	4680.7	4620.3	4555.1	4499.6	4630.0	4837.6	4462.2
37.5°	5781.9	5803.5	5560.9	5251.9	5004.3	4978.9	4940.3	4916.2	5117.7	5405.1	4946.2
40°	6275.6	6253.8	5917.0	5599.4	5401.5	5400.3	5388.3	5417.1	5752.7	6146.4	5568.1
42.5°	6804.3	6740.3	6294.9	5972.6	5837.2	5878.4	5902.6	6020.8	6517.1	7047.1	6326.3
45°	7374.1	7230.5	6687.3	6367.4	6321.5	6408.4	6490.4	6747.6	7416.4	8072.0	7156.8
47.5°	7829.4	7690.5	7092.8	6781.5	6881.6	7013.2	7171.3	7578.2	8423.3	9130.8	7976.7
50°	8188.0	8097.4	7502.1	7264.4	7498.5	7701.3	7959.7	8518.7	9471.3	10161.8	8736.0
52.5°	8535.6	8468.1	7915.1	7759.3	8222.9	8503.0	8854.4	9528.1	10545.8	11176.1	9374.7
55°	8849.6	8801.2	8359.4	8376.2	9075.2	9439.8	9881.7	10677.3	11716.9	12080.2	9915.6
57.5°	9203.2	9141.7	8866.5	9150.1	10170.3	10643.6	11218.3	11969.1	12815.5	12884.3	10327.3
60°	9559.5	9506.4	9429.0	10043.6	11561.1	12058.6	12603.0	13221.2	13929.8	13508.5	10303.1
62.5°	9868.5	9874.4	10010.9	10981.6	12922.9	13498.8	14162.9	14773.7	14937.9	13617.1	9541.3
65°	10392.4	10487.8	10894.7	12309.7	14840.2	15610.4	16425.4	16327.6	15216.8	12601.9	7907.8
67.5°	11015.5	11183.2	12007.9	14079.6	17263.2	18285.8	18600.9	16678.9	14100.1	10243.9	5637.0
70°	10952.7	11183.2	12488.3	15399.1	19260.1	19945.8	18989.7	15094.8	11196.6	6692.1	2994.1
72.5°	9725.9	10055.6	11509.3	14794.2	18631.0	18570.8	16485.8	11253.2	6652.3	2687.5	1169.9
75°	7412.9	7746.1	8996.9	11687.8	14725.5	14218.5	11697.5	6216.5	2524.4	1067.2	737.7
77.5°	4264.2	4522.5	5488.5	7167.8	9342.2	8821.7	6510.9	2764.8	1229.1	743.6	575.9
80°	2380.8	2524.4	3111.2	3636.3	4578.1	4196.6	2913.3	1718.0	917.6	539.6	444.3
82.5°	1882.2	2010.1	2516.1	2293.9	2091.1	1929.3	1673.4	1529.6	732.8	340.5	265.5
85°	1644.3	1766.2	2129.7	1806.1	1428.2	1309.9	1359.5	1505.5	569.9	205.3	227.0
87.5°	1523.6	1686.6	1897.8	1392.1	1111.9	985.1	1254.5	1650.4	183.6	128.0	91.7
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°	3605.0	3605.0	3605.0	3605.0	3605.0	3605.0	3605.0	3605.0	3605.0	3605.0	3605.0
2.5°	3561.5	3542.2	3510.8	3483.1	3439.6	3416.7	3391.3	3373.1	3358.8	3346.6	3365.9
5°	3451.6	3415.4	3349.1	3277.8	3193.4	3126.9	3071.3	3019.5	2983.2	2959.0	2976.1
7.5°	3347.9	3288.7	3184.9	3055.7	2910.8	2787.7	2686.2	2596.9	2535.3	2495.5	2511.2
10°	3288.7	3215.0	3054.4	2851.7	2638.0	2445.9	2286.6	2148.9	2053.6	1999.3	2007.7
12.5°	3274.2	3178.8	2956.7	2677.8	2385.5	2118.8	1894.3	1703.5	1569.5	1499.5	1501.8
15°	3285.1	3163.1	2865.0	2511.2	2141.7	1805.0	1524.9	1293.0	1137.3	1057.7	1056.3
17.5°	3303.2	3151.1	2768.3	2331.3	1894.3	1503.1	1190.4	963.4	825.8	761.9	757.0
20°	3322.6	3131.8	2659.7	2136.9	1637.2	1223.0	932.0	754.5	667.6	632.6	630.3
22.5°	3350.3	3114.9	2547.5	1931.6	1384.7	996.0	766.7	647.0	601.2	583.1	580.8
25°	3395.0	3106.3	2427.8	1718.0	1157.7	833.1	667.6	594.0	567.4	555.3	554.2
27.5°	3469.9	3118.5	2315.7	1510.3	973.0	723.1	612.1	567.4	548.1	537.2	536.1
30°	3566.5	3155.8	2197.3	1313.5	829.5	648.3	578.2	549.4	533.7	522.8	522.8
32.5°	3727.0	3218.6	2073.0	1143.4	726.8	596.5	552.9	533.7	520.4	511.9	510.6
35°	3963.6	3336.9	1957.0	1002.1	653.2	558.9	531.2	516.7	507.1	502.2	502.2
37.5°	4307.6	3524.1	1854.5	900.6	608.5	533.7	510.6	499.8	493.8	493.8	493.8
40°	4770.1	3782.5	1771.1	833.1	583.1	515.4	495.0	486.5	482.8	484.1	484.1
42.5°	5341.1	4118.1	1715.6	785.9	571.1	504.7	484.1	476.9	473.2	472.1	473.2
45°	5991.9	4499.6	1709.6	751.0	558.9	497.4	476.9	469.6	462.4	457.5	457.5
47.5°	6624.6	4887.1	1759.1	738.9	545.7	488.9	470.8	463.6	452.7	441.8	441.8
50°	7183.4	5216.7	1825.4	743.6	540.9	476.9	461.2	457.5	440.7	428.6	427.4
52.5°	7627.8	5470.3	1879.8	758.2	545.7	468.5	449.2	450.3	432.3	418.9	417.7
55°	7983.9	5637.0	1865.3	772.7	556.6	463.6	438.3	440.7	426.2	413.0	413.0
57.5°	8139.6	5575.3	1704.8	760.7	565.0	464.9	429.7	439.5	427.4	415.2	415.2
60°	7805.3	5028.4	1404.1	707.4	554.2	461.2	426.2	444.3	443.0	430.9	429.7
62.5°	6793.5	4049.3	1088.9	629.1	516.7	443.0	416.5	443.0	456.3	452.7	451.6
65°	5236.1	2884.3	831.8	544.6	466.0	413.0	391.1	415.2	433.4	438.3	437.0
67.5°	3398.6	1767.4	641.1	464.9	409.3	377.8	358.6	369.5	373.1	373.1	370.6
70°	1670.8	951.3	510.6	391.1	351.3	340.5	329.6	323.6	317.6	312.7	312.7
72.5°	824.6	621.7	420.1	330.8	303.1	298.1	295.8	288.5	283.8	277.7	275.3
75°	609.7	505.8	357.3	278.8	260.8	255.9	260.8	254.7	253.5	248.7	246.2
77.5°	501.1	430.9	307.8	239.0	223.4	215.0	222.2	223.4	224.5	217.3	215.0
80°	406.8	364.6	257.2	197.9	183.6	177.4	182.3	192.0	194.4	183.6	178.8
82.5°	293.3	298.1	207.7	154.6	142.4	137.6	147.3	159.4	161.8	146.1	142.4
85°	246.2	248.7	159.4	109.9	97.7	90.5	106.2	118.2	126.8	111.1	107.4
87.5°	102.6	146.1	91.7	61.5	54.3	47.2	56.8	62.8	76.0	70.0	68.8
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)