

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: P193803

Luminaire Tested: **GLEON-AF-05-LED-E1-SL4-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193803
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-05-LED-E1-SL4-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA 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: 25305 lumens
Efficiency: N/A
Efficacy: 79.1 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): 320
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

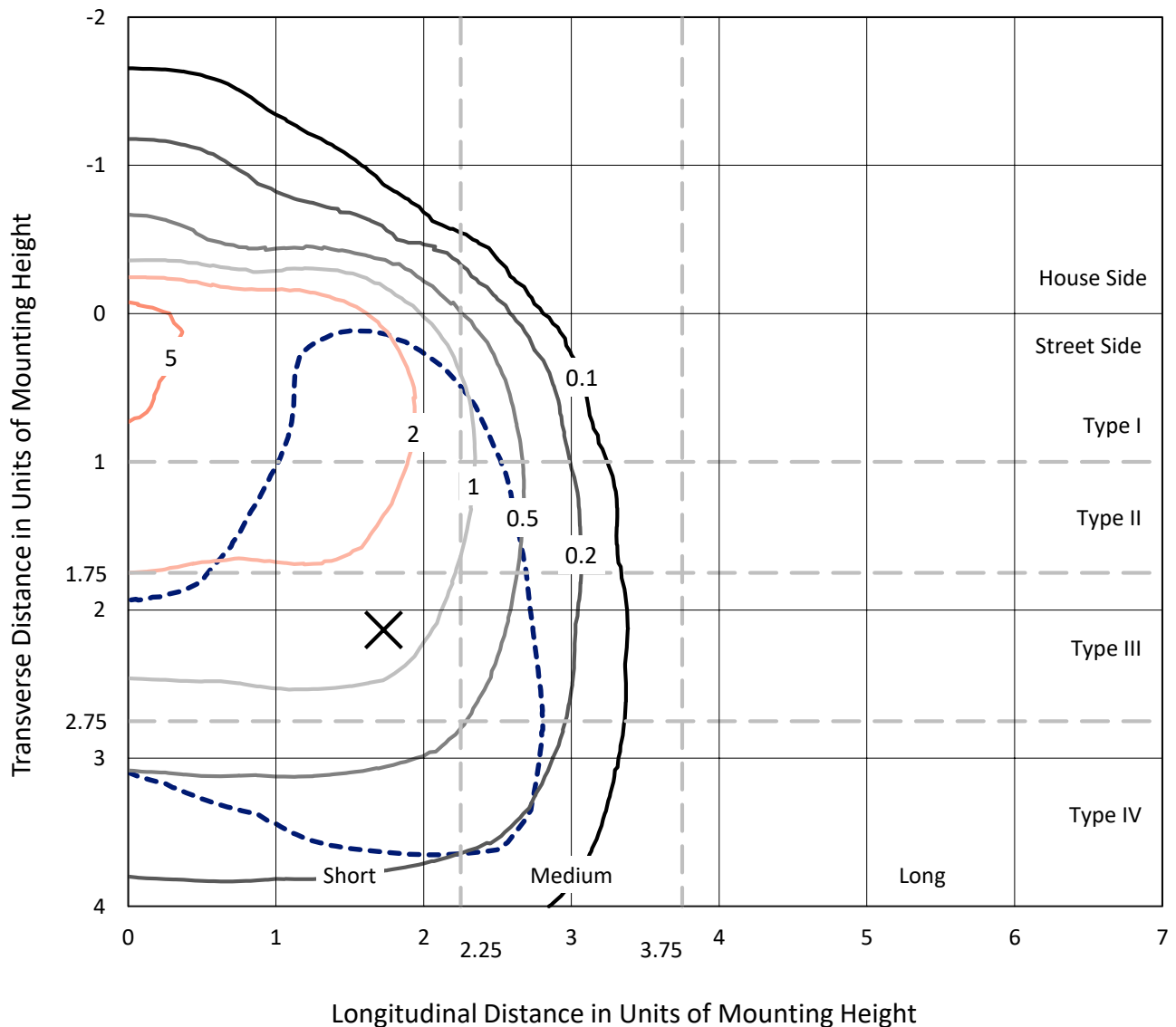


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

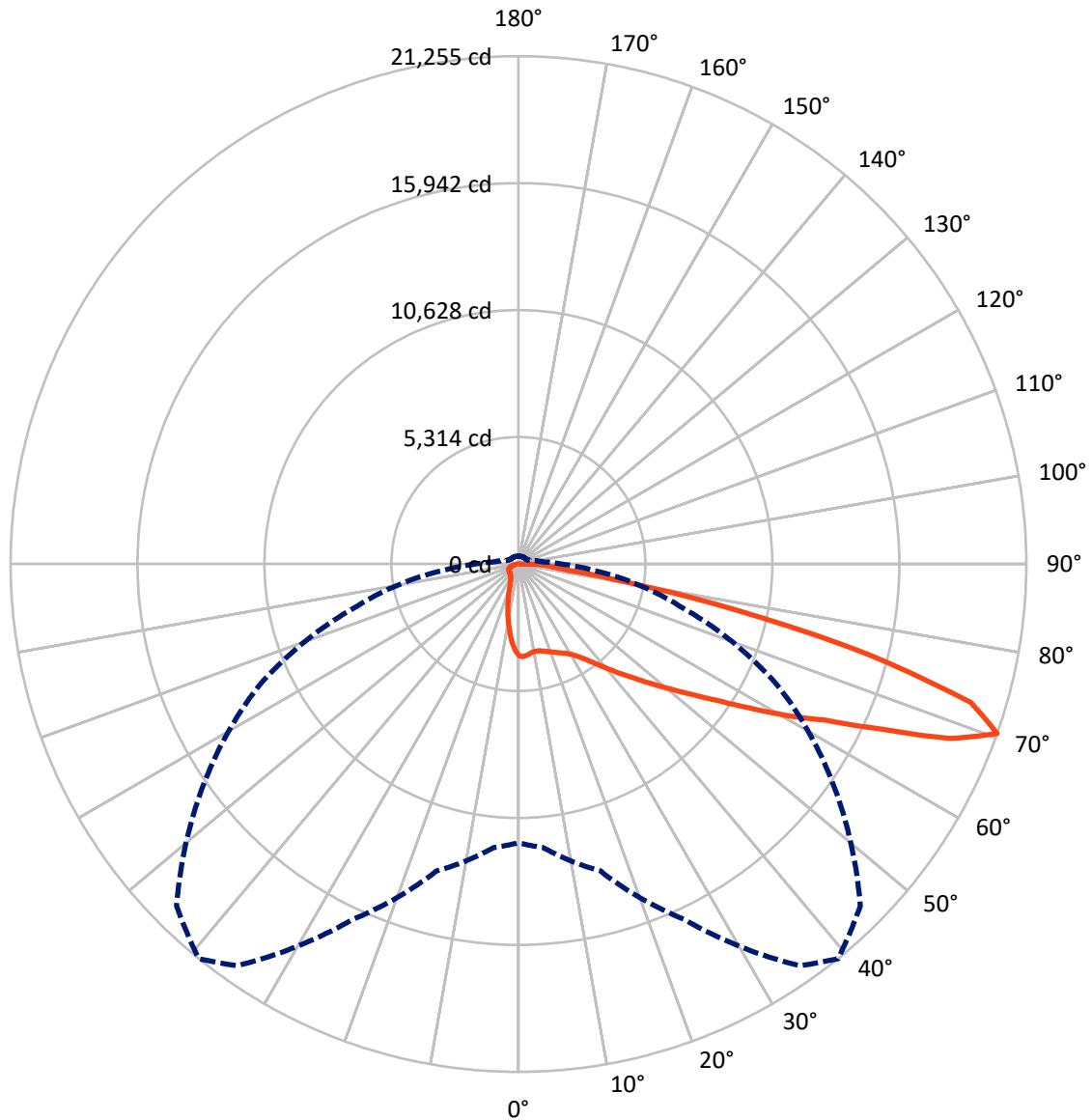


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - Semi-Cutoff

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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	2878.0	0.0	2878.0
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	22427.0	0.0	22427.0
	% Fixture	88.6	0.0	88.6
Total	Lumens	25305.0	0.0	25305.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.7	1.3
10°-20°	824.1	3.3
20°-30°	1283.1	5.1
30°-40°	1998.9	7.9
40°-50°	3355.8	13.3
50°-60°	5331.0	21.1
60°-70°	7111.0	28.1
70°-80°	4294.1	17.0
80°-90°	777.2	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°	25305.0	100.0
0°-180°	25305.0	100.0

Coefficient of Utilization



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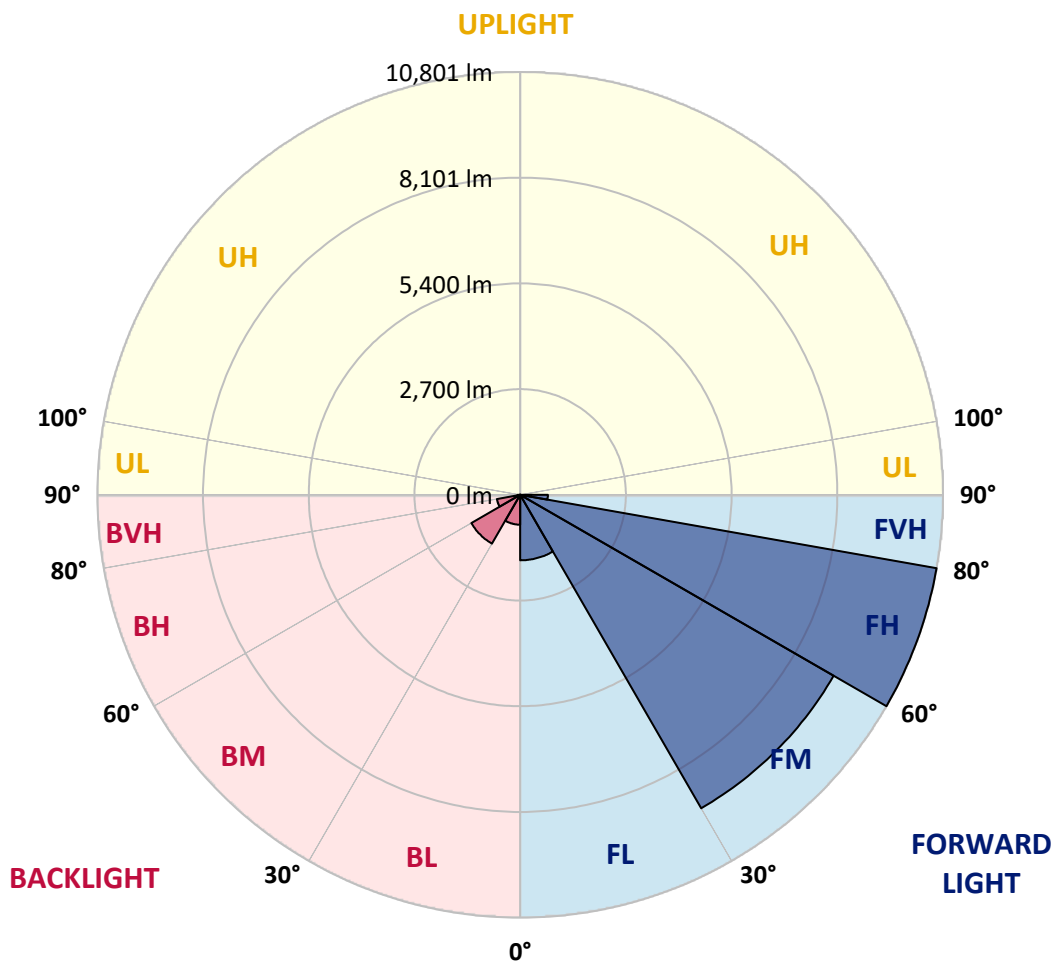
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1673.4	6.6			
FM	(30°-60°)	9245.5	36.5			
FH	(60°-80°)	10800.9	42.7			G4/12000
FVH	(80°-90°)	707.1	2.8			G4/750
BL	(0°-30°)	763.5	3.0	B2/1000		
BM	(30°-60°)	1440.3	5.7	B2/2500		
BH	(60°-80°)	604.2	2.4	B2/1000		G2/1000
BVH	(80°-90°)	70.0	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°	3841.7	3841.7	3841.7	3841.7	3841.7	3841.7	3841.7	3841.7	3841.7	3841.7	3841.7
2.5°	3916.3	3915.0	3904.7	3897.0	3890.6	3888.0	3893.2	3873.9	3857.1	3836.5	3814.7
5°	3886.7	3885.4	3868.7	3853.3	3837.8	3832.7	3831.4	3796.7	3776.1	3745.2	3704.0
7.5°	3854.6	3848.1	3826.3	3800.5	3773.5	3760.6	3747.8	3702.7	3679.6	3648.7	3601.1
10°	3821.1	3813.4	3792.8	3767.1	3741.3	3722.0	3700.2	3656.4	3632.0	3608.8	3553.5
12.5°	3786.4	3779.9	3774.8	3763.2	3745.2	3728.5	3711.7	3674.4	3648.7	3621.7	3557.4
15°	3781.2	3778.6	3790.2	3797.9	3787.7	3777.4	3759.4	3727.2	3700.2	3673.2	3589.5
17.5°	3822.4	3821.1	3850.7	3871.3	3866.1	3848.1	3823.7	3787.7	3765.8	3742.6	3638.4
20°	3912.5	3918.9	3954.9	3981.9	3956.2	3930.5	3890.6	3840.4	3828.8	3818.5	3688.6
22.5°	4082.3	4088.7	4114.4	4124.7	4057.8	4020.5	3965.2	3900.9	3893.2	3900.9	3749.1
25°	4347.3	4340.9	4337.0	4298.4	4176.2	4118.3	4047.5	3980.6	3984.5	4019.2	3834.0
27.5°	4698.5	4663.8	4609.8	4494.0	4299.7	4235.4	4149.2	4087.4	4111.9	4178.8	3961.3
30°	5062.6	5024.0	4899.2	4710.1	4461.8	4391.1	4294.6	4225.1	4289.4	4394.9	4131.2
32.5°	5399.7	5394.6	5211.9	4968.7	4685.7	4623.9	4527.4	4449.0	4553.2	4714.0	4385.9
35°	5767.7	5779.3	5560.5	5268.5	4988.0	4923.7	4854.2	4795.0	4934.0	5155.3	4755.2
37.5°	6161.4	6184.5	5925.9	5596.6	5332.8	5305.8	5264.6	5238.9	5453.8	5760.0	5271.1
40°	6687.6	6664.4	6305.5	5967.1	5756.1	5754.8	5742.0	5772.8	6130.5	6549.9	5933.7
42.5°	7251.1	7182.9	6708.2	6364.7	6220.6	6264.3	6290.0	6416.1	6944.9	7509.7	6741.6
45°	7858.4	7705.3	7126.3	6785.4	6736.5	6829.1	6916.6	7190.6	7903.4	8602.0	7626.8
47.5°	8343.4	8195.4	7558.6	7226.7	7333.4	7473.7	7642.2	8075.8	8976.4	9730.3	8500.4
50°	8725.5	8629.0	7994.7	7741.3	7990.9	8207.0	8482.3	9078.0	10093.1	10829.0	9309.6
52.5°	9096.0	9024.0	8434.7	8268.8	8762.8	9061.3	9435.7	10153.6	11238.2	11909.8	9990.2
55°	9430.5	9379.1	8908.2	8926.2	9671.1	10059.7	10530.6	11378.4	12486.1	12873.4	10566.6
57.5°	9807.5	9741.9	9448.6	9750.9	10838.0	11342.4	11954.8	12755.0	13656.9	13730.3	11005.3
60°	10187.0	10130.4	10048.1	10703.0	12320.2	12850.2	13430.5	14089.2	14844.4	14395.4	10979.6
62.5°	10516.4	10522.8	10668.2	11702.6	13771.4	14385.1	15092.7	15743.7	15918.7	14511.2	10167.7
65°	11074.8	11176.4	11610.0	13117.8	15814.5	16635.3	17503.8	17399.5	16215.9	13429.2	8427.0
67.5°	11738.6	11917.5	12796.2	15004.0	18396.6	19486.4	19822.1	17773.9	15025.8	10916.5	6007.0
70°	11671.7	11917.5	13308.3	16410.2	20524.6	21255.4	20236.4	16086.0	11931.6	7131.4	3190.7
72.5°	10364.6	10715.8	12264.9	15765.6	19854.3	19790.0	17568.1	11992.1	7089.0	2863.9	1246.7
75°	7899.5	8254.6	9587.5	12455.3	15692.3	15151.9	12465.6	6624.5	2690.2	1137.3	786.1
77.5°	4544.2	4819.5	5848.7	7638.4	9955.5	9401.0	6938.5	2946.2	1309.7	792.5	613.7
80°	2537.1	2690.2	3315.5	3875.1	4878.7	4472.1	3104.5	1830.8	977.8	575.1	473.5
82.5°	2005.8	2142.1	2681.2	2444.5	2228.3	2055.9	1783.2	1630.1	780.9	362.8	283.0
85°	1752.3	1882.2	2269.5	1924.7	1522.0	1395.9	1448.7	1604.3	607.3	218.7	241.9
87.5°	1623.6	1797.3	2022.5	1483.4	1184.9	1049.8	1336.7	1758.7	195.6	136.4	97.8
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°	3841.7	3841.7	3841.7	3841.7	3841.7	3841.7	3841.7	3841.7	3841.7	3841.7	3841.7
2.5°	3795.4	3774.8	3741.3	3711.7	3665.4	3641.0	3614.0	3594.7	3579.2	3566.4	3587.0
5°	3678.3	3639.7	3568.9	3493.0	3403.0	3332.2	3273.0	3217.7	3179.1	3153.4	3171.4
7.5°	3567.7	3504.6	3394.0	3256.3	3101.9	2970.7	2862.6	2767.4	2701.8	2659.3	2676.1
10°	3504.6	3426.1	3255.0	3038.9	2811.2	2606.6	2436.8	2290.1	2188.5	2130.6	2139.6
12.5°	3489.2	3387.5	3150.8	2853.6	2542.3	2257.9	2018.6	1815.3	1672.5	1597.9	1600.5
15°	3500.8	3370.8	3053.0	2676.1	2282.4	1923.4	1624.9	1377.9	1211.9	1127.0	1125.7
17.5°	3520.0	3357.9	2950.1	2484.4	2018.6	1601.8	1268.6	1026.7	880.0	811.8	806.7
20°	3540.6	3337.4	2834.3	2277.2	1744.6	1303.3	993.2	804.1	711.5	674.2	671.6
22.5°	3570.2	3319.3	2714.7	2058.5	1475.7	1061.4	817.0	689.6	640.7	621.4	618.8
25°	3617.8	3310.3	2587.3	1830.8	1233.8	887.7	711.5	633.0	604.7	591.8	590.5
27.5°	3697.6	3323.2	2467.6	1609.5	1037.0	770.7	652.3	604.7	584.1	572.5	571.2
30°	3800.5	3363.1	2341.6	1399.8	883.9	690.9	616.3	585.4	568.7	557.1	557.1
32.5°	3971.6	3430.0	2209.0	1218.4	774.5	635.6	589.2	568.7	554.5	545.5	544.2
35°	4223.8	3556.1	2085.5	1067.9	696.0	595.7	566.1	550.7	540.4	535.2	535.2
37.5°	4590.5	3755.5	1976.2	959.8	648.4	568.7	544.2	532.6	526.2	526.2	526.2
40°	5083.2	4030.8	1887.4	887.7	621.4	549.4	527.5	518.5	514.6	515.9	515.9
42.5°	5691.8	4388.5	1828.2	837.6	608.5	537.8	515.9	508.2	504.3	503.0	504.3
45°	6385.2	4795.0	1821.8	800.2	595.7	530.1	508.2	500.5	492.8	487.6	487.6
47.5°	7059.4	5208.0	1874.5	787.4	581.5	521.1	501.8	494.0	482.5	470.9	470.9
50°	7655.1	5559.3	1945.3	792.5	576.4	508.2	491.5	487.6	469.6	456.7	455.4
52.5°	8128.5	5829.4	2003.2	808.0	581.5	499.2	478.6	479.9	460.6	446.4	445.2
55°	8508.1	6007.0	1987.7	823.4	593.1	494.0	467.0	469.6	454.2	440.0	440.0
57.5°	8674.0	5941.4	1816.6	810.5	602.1	495.3	458.0	468.3	455.4	442.6	442.6
60°	8317.7	5358.6	1496.3	753.9	590.5	491.5	454.2	473.5	472.2	459.3	458.0
62.5°	7239.5	4315.1	1160.5	670.3	550.7	472.2	443.9	472.2	486.3	482.5	481.2
65°	5579.8	3073.6	886.4	580.2	496.6	440.0	416.8	442.6	461.9	467.0	465.7
67.5°	3621.7	1883.5	683.2	495.3	436.1	402.7	382.1	393.7	397.5	397.5	395.0
70°	1780.6	1013.8	544.2	416.8	374.4	362.8	351.2	344.8	338.4	333.2	333.2
72.5°	878.7	662.6	447.7	352.5	322.9	317.8	315.2	307.5	302.3	295.9	293.3
75°	649.7	539.1	380.8	297.2	277.9	272.8	277.9	271.5	270.2	265.0	262.5
77.5°	533.9	459.3	328.1	254.7	238.0	229.0	236.7	238.0	239.3	231.6	229.0
80°	433.6	388.5	274.0	211.0	195.6	189.1	194.3	204.6	207.1	195.6	190.4
82.5°	312.6	317.8	221.3	164.7	151.8	146.7	157.0	169.8	172.4	155.7	151.8
85°	262.5	265.0	169.8	117.1	104.2	96.5	113.2	126.1	135.1	118.4	114.5
87.5°	109.4	155.7	97.8	65.6	57.9	50.2	60.5	66.9	81.1	74.6	73.3
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)