

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: P192035

Luminaire Tested: **GLEON-AF-07-LED-E1-SL4-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192035
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-07-LED-E1-SL4-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 615mA 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: 26359 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

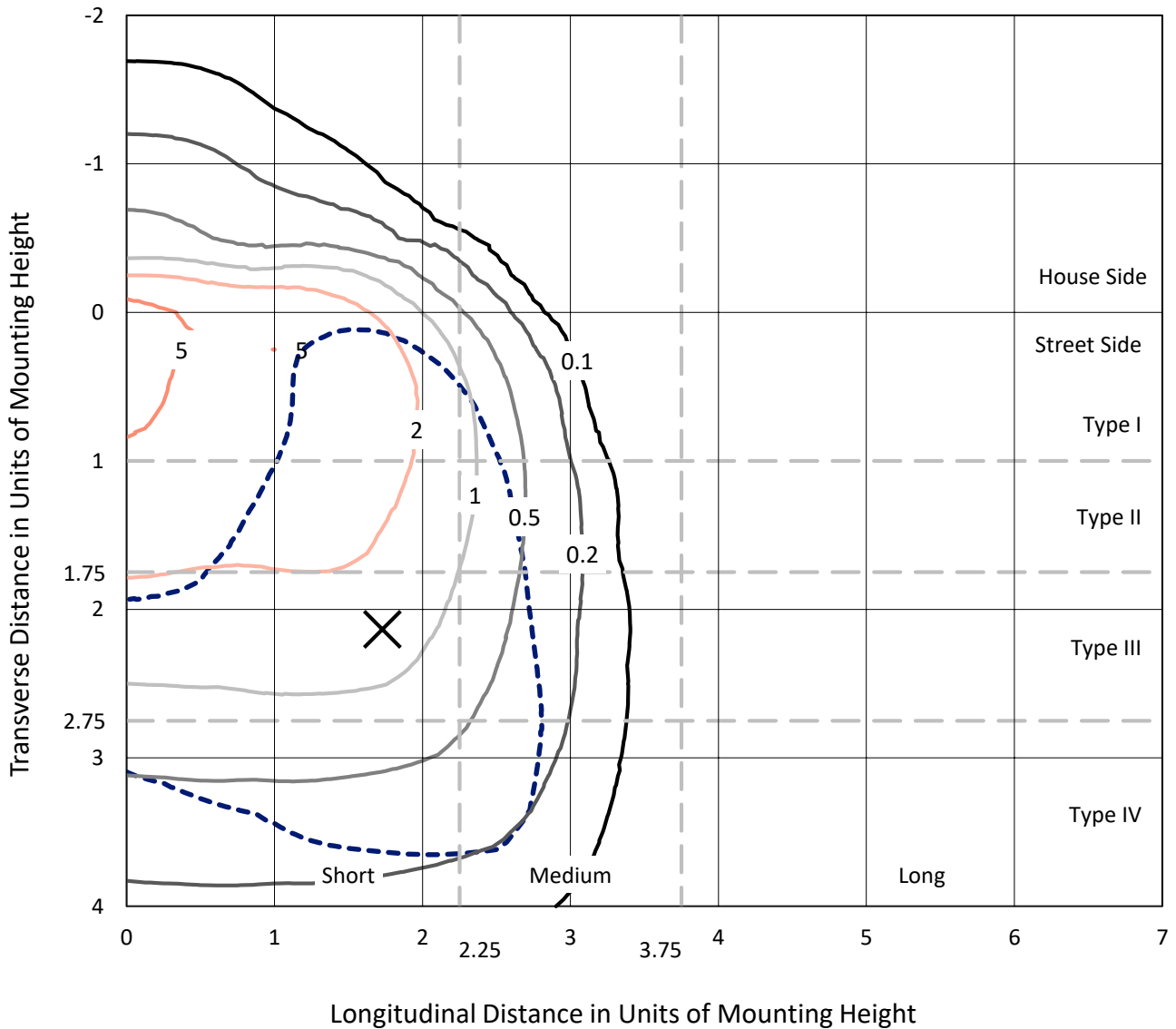
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

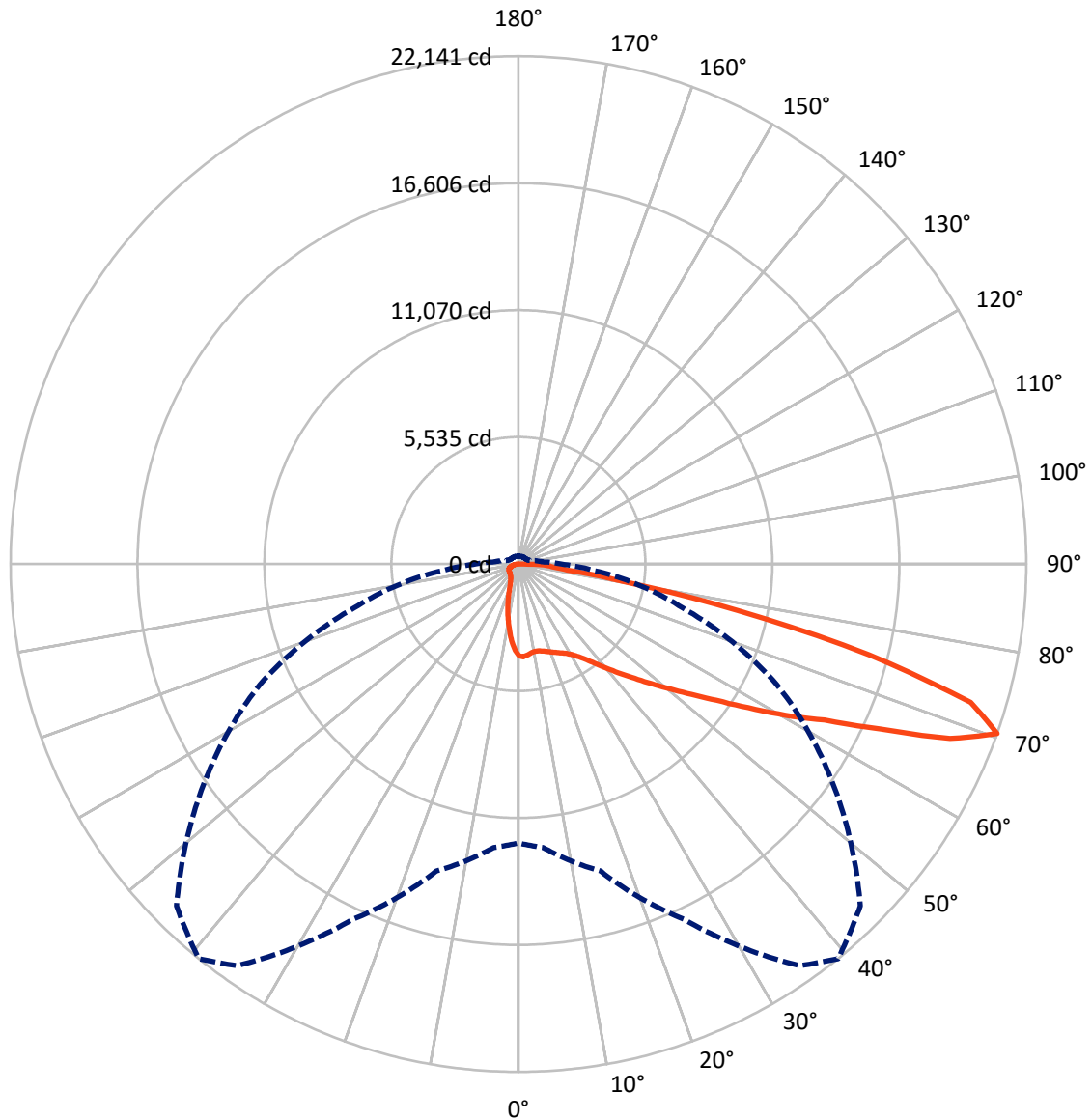
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	2997.9	0.0	2997.9
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	23361.1	0.0	23361.1
	% Fixture	88.6	0.0	88.6
Total	Lumens	26359.0	0.0	26359.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.4	1.3
10°-20°	858.4	3.3
20°-30°	1336.6	5.1
30°-40°	2082.2	7.9
40°-50°	3495.6	13.3
50°-60°	5553.1	21.1
60°-70°	7407.2	28.1
70°-80°	4473.0	17.0
80°-90°	809.6	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°	26359.0	100.0
0°-180°	26359.0	100.0



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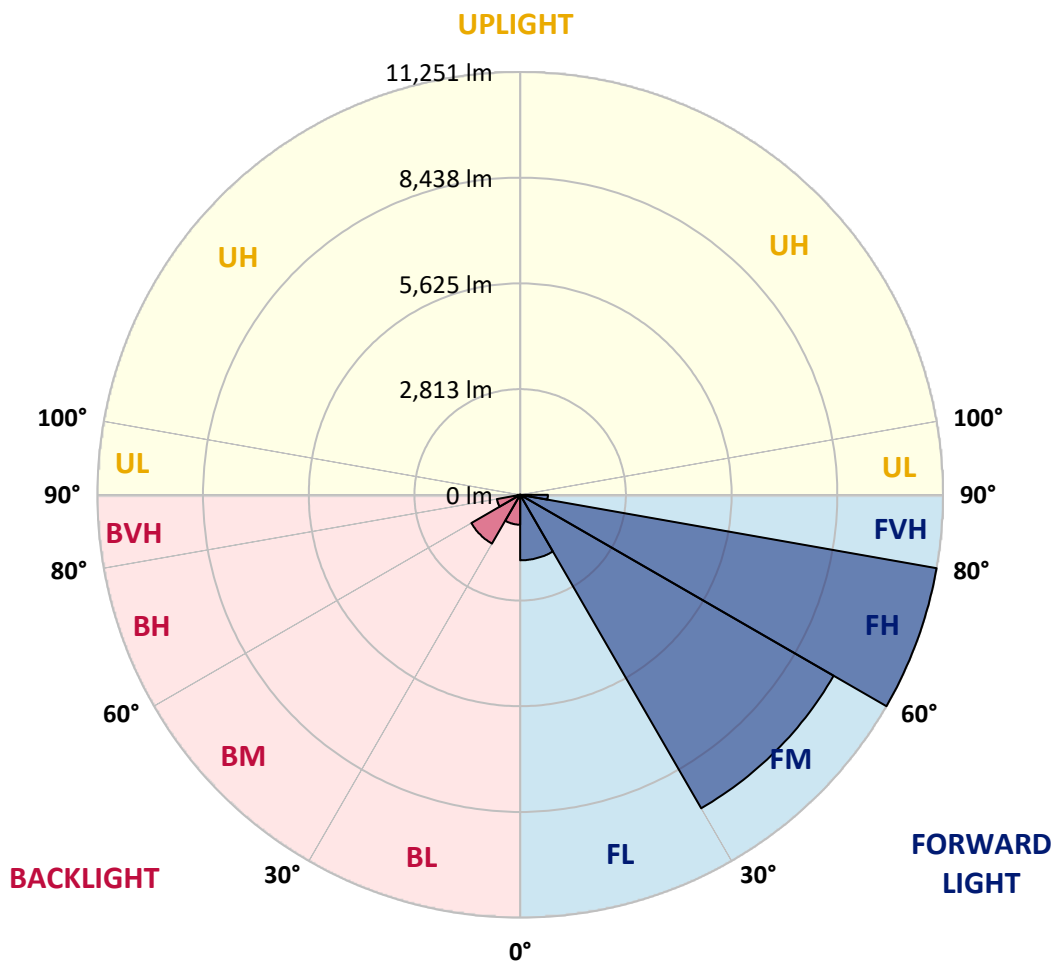
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1743.1	6.6			
FM	(30°-60°)	9630.6	36.5			
FH	(60°-80°)	11250.8	42.7			G4/12000
FVH	(80°-90°)	736.6	2.8			G4/750
BL	(0°-30°)	795.3	3.0	B2/1000		
BM	(30°-60°)	1500.3	5.7	B2/2500		
BH	(60°-80°)	629.4	2.4	B2/1000		G2/1000
BVH	(80°-90°)	73.0	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°	4001.7	4001.7	4001.7	4001.7	4001.7	4001.7	4001.7	4001.7	4001.7	4001.7	4001.7
2.5°	4079.4	4078.1	4067.4	4059.3	4052.6	4050.0	4055.3	4035.2	4017.8	3996.3	3973.6
5°	4048.6	4047.3	4029.8	4013.8	3997.7	3992.3	3991.0	3954.8	3933.4	3901.2	3858.3
7.5°	4015.1	4008.4	3985.6	3958.8	3930.7	3917.3	3903.9	3857.0	3832.8	3800.7	3751.1
10°	3980.3	3972.2	3950.8	3924.0	3897.2	3877.1	3854.3	3808.7	3783.3	3759.1	3701.5
12.5°	3944.1	3937.4	3932.0	3920.0	3901.2	3883.8	3866.3	3827.5	3800.7	3772.5	3705.5
15°	3938.7	3936.0	3948.1	3956.1	3945.4	3934.7	3915.9	3882.4	3854.3	3826.1	3739.0
17.5°	3981.6	3980.3	4011.1	4032.5	4027.2	4008.4	3982.9	3945.4	3922.6	3898.5	3790.0
20°	4075.4	4082.1	4119.6	4147.8	4121.0	4094.2	4052.6	4000.4	3988.3	3977.6	3842.2
22.5°	4252.3	4259.0	4285.8	4296.5	4226.9	4188.0	4130.4	4063.4	4055.3	4063.4	3905.2
25°	4528.4	4521.7	4517.7	4477.5	4350.1	4289.8	4216.1	4146.4	4150.5	4186.6	3993.7
27.5°	4894.2	4858.1	4801.8	4681.2	4478.8	4411.8	4322.0	4257.7	4283.1	4352.8	4126.3
30°	5273.5	5233.3	5103.3	4906.3	4647.7	4574.0	4473.4	4401.1	4468.1	4578.0	4303.2
32.5°	5624.6	5619.3	5429.0	5175.7	4880.8	4816.5	4716.0	4634.3	4742.8	4910.3	4568.6
35°	6007.9	6020.0	5792.2	5487.9	5195.8	5128.8	5056.4	4994.8	5139.5	5370.0	4953.2
37.5°	6418.0	6442.1	6172.8	5829.7	5554.9	5526.8	5483.9	5457.1	5680.9	5999.9	5490.6
40°	6966.1	6942.0	6568.1	6215.6	5995.9	5994.5	5981.1	6013.3	6385.8	6822.7	6180.8
42.5°	7553.1	7482.1	6987.6	6629.7	6479.7	6525.2	6552.0	6683.4	7234.2	7822.5	7022.4
45°	8185.7	8026.2	7423.1	7068.0	7017.1	7113.5	7204.7	7490.1	8232.6	8960.3	7944.4
47.5°	8690.9	8536.8	7873.4	7527.7	7638.9	7785.0	7960.5	8412.2	9350.3	10135.6	8854.4
50°	9088.9	8988.4	8327.7	8063.7	8323.7	8548.9	8835.6	9456.1	10513.5	11280.1	9697.4
52.5°	9474.9	9399.9	8786.1	8613.2	9127.8	9438.7	9828.7	10576.5	11706.3	12405.8	10406.3
55°	9823.3	9769.7	9279.2	9298.0	10073.9	10478.7	10969.2	11852.3	13006.2	13409.6	11006.7
57.5°	10216.0	10147.7	9842.1	10157.0	11289.5	11814.8	12452.7	13286.3	14225.8	14302.1	11463.7
60°	10611.4	10552.4	10466.6	11148.8	12833.3	13385.5	13989.9	14676.0	15462.7	14995.0	11436.9
62.5°	10954.4	10961.1	11112.6	12190.1	14345.0	14984.3	15721.4	16399.5	16581.7	15115.6	10591.3
65°	11536.1	11641.9	12093.6	13664.2	16473.2	17328.2	18232.8	18124.3	16891.3	13988.5	8778.0
67.5°	12227.6	12413.9	13329.2	15628.9	19162.9	20298.0	20647.8	18514.3	15651.7	11371.2	6257.2
70°	12157.9	12413.9	13862.6	17093.7	21379.5	22140.7	21079.3	16756.0	12428.6	7428.5	3323.6
72.5°	10796.3	11162.2	12775.7	16422.3	20681.3	20614.3	18299.8	12491.6	7384.3	2983.2	1298.6
75°	8228.6	8598.4	9986.8	12974.0	16345.9	15783.0	12984.8	6900.5	2802.3	1184.7	818.8
77.5°	4733.4	5020.2	6092.3	7956.5	10370.1	9792.5	7227.5	3069.0	1364.3	825.5	639.3
80°	2642.8	2802.3	3453.6	4036.5	5081.9	4658.4	3233.8	1907.0	1018.5	599.0	493.2
82.5°	2089.3	2231.4	2792.9	2546.3	2321.1	2141.6	1857.5	1698.0	813.5	377.9	294.8
85°	1825.3	1960.6	2364.0	2004.9	1585.4	1454.1	1509.0	1671.2	632.6	227.8	251.9
87.5°	1691.3	1872.2	2106.7	1545.2	1234.3	1093.6	1392.4	1832.0	203.7	142.1	101.9
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°	4001.7	4001.7	4001.7	4001.7	4001.7	4001.7	4001.7	4001.7	4001.7	4001.7	4001.7
2.5°	3953.5	3932.0	3897.2	3866.3	3818.1	3792.6	3764.5	3744.4	3728.3	3714.9	3736.4
5°	3831.5	3791.3	3717.6	3638.5	3544.7	3471.0	3409.4	3351.7	3311.5	3284.7	3303.5
7.5°	3716.3	3650.6	3535.3	3391.9	3231.1	3094.4	2981.8	2882.7	2814.3	2770.1	2787.5
10°	3650.6	3568.8	3390.6	3165.4	2928.2	2715.2	2538.3	2385.5	2279.6	2219.3	2228.7
12.5°	3634.5	3528.6	3282.0	2972.5	2648.1	2352.0	2102.7	1891.0	1742.2	1664.5	1667.2
15°	3646.6	3511.2	3180.2	2787.5	2377.4	2003.5	1692.6	1435.3	1262.4	1174.0	1172.6
17.5°	3666.7	3497.8	3073.0	2587.8	2102.7	1668.5	1321.4	1069.4	916.7	845.6	840.3
20°	3688.1	3476.4	2952.4	2372.1	1817.3	1357.6	1034.6	837.6	741.1	702.2	699.6
22.5°	3718.9	3457.6	2827.7	2144.2	1537.2	1105.6	851.0	718.3	667.4	647.3	644.6
25°	3768.5	3448.2	2695.1	1907.0	1285.2	924.7	741.1	659.4	629.9	616.5	615.1
27.5°	3851.6	3461.6	2570.4	1676.5	1080.2	802.8	679.5	629.9	608.4	596.4	595.0
30°	3958.8	3503.2	2439.1	1458.1	920.7	719.7	641.9	609.8	592.3	580.3	580.3
32.5°	4137.1	3572.9	2301.0	1269.1	806.8	662.0	613.8	592.3	577.6	568.2	566.9
35°	4399.7	3704.2	2172.4	1112.3	725.0	620.5	589.7	573.6	562.9	557.5	557.5
37.5°	4781.7	3911.9	2058.5	999.8	675.4	592.3	566.9	554.8	548.1	548.1	548.1
40°	5295.0	4198.7	1966.0	924.7	647.3	572.2	549.5	540.1	536.1	537.4	537.4
42.5°	5928.8	4571.3	1904.4	872.4	633.9	560.2	537.4	529.4	525.3	524.0	525.3
45°	6651.2	4994.8	1897.7	833.6	620.5	552.1	529.4	521.3	513.3	507.9	507.9
47.5°	7353.4	5425.0	1952.6	820.2	605.8	542.8	522.7	514.6	502.6	490.5	490.5
50°	7973.9	5790.8	2026.3	825.5	600.4	529.4	511.9	507.9	489.2	475.8	474.4
52.5°	8467.1	6072.2	2086.6	841.6	605.8	520.0	498.5	499.9	479.8	465.0	463.7
55°	8862.4	6257.2	2070.5	857.7	617.8	514.6	486.5	489.2	473.1	458.3	458.3
57.5°	9035.3	6188.8	1892.3	844.3	627.2	516.0	477.1	487.8	474.4	461.0	461.0
60°	8664.1	5581.7	1558.6	785.3	615.1	511.9	473.1	493.2	491.8	478.4	477.1
62.5°	7541.1	4494.9	1208.8	698.2	573.6	491.8	462.4	491.8	506.6	502.6	501.2
65°	5812.3	3201.6	923.4	604.4	517.3	458.3	434.2	461.0	481.1	486.5	485.1
67.5°	3772.5	1962.0	711.6	516.0	454.3	419.5	398.0	410.1	414.1	414.1	411.4
70°	1854.8	1056.0	566.9	434.2	390.0	377.9	365.9	359.2	352.5	347.1	347.1
72.5°	915.3	690.2	466.4	367.2	336.4	331.0	328.3	320.3	314.9	308.2	305.6
75°	676.8	561.5	396.7	309.6	289.5	284.1	289.5	282.8	281.4	276.1	273.4
77.5°	556.2	478.4	341.7	265.4	247.9	238.5	246.6	247.9	249.3	241.2	238.5
80°	451.6	404.7	285.5	219.8	203.7	197.0	202.4	213.1	215.8	203.7	198.3
82.5°	325.7	331.0	230.5	171.5	158.1	152.8	163.5	176.9	179.6	162.2	158.1
85°	273.4	276.1	176.9	122.0	108.6	100.5	117.9	131.3	140.7	123.3	119.3
87.5°	113.9	162.2	101.9	68.3	60.3	52.3	63.0	69.7	84.4	77.7	76.4
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)