

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: P269562

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269562
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-08-LED-E1-SL4-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 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: 25948.4 lumens
Efficiency: N/A
Efficacy: 101.0 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

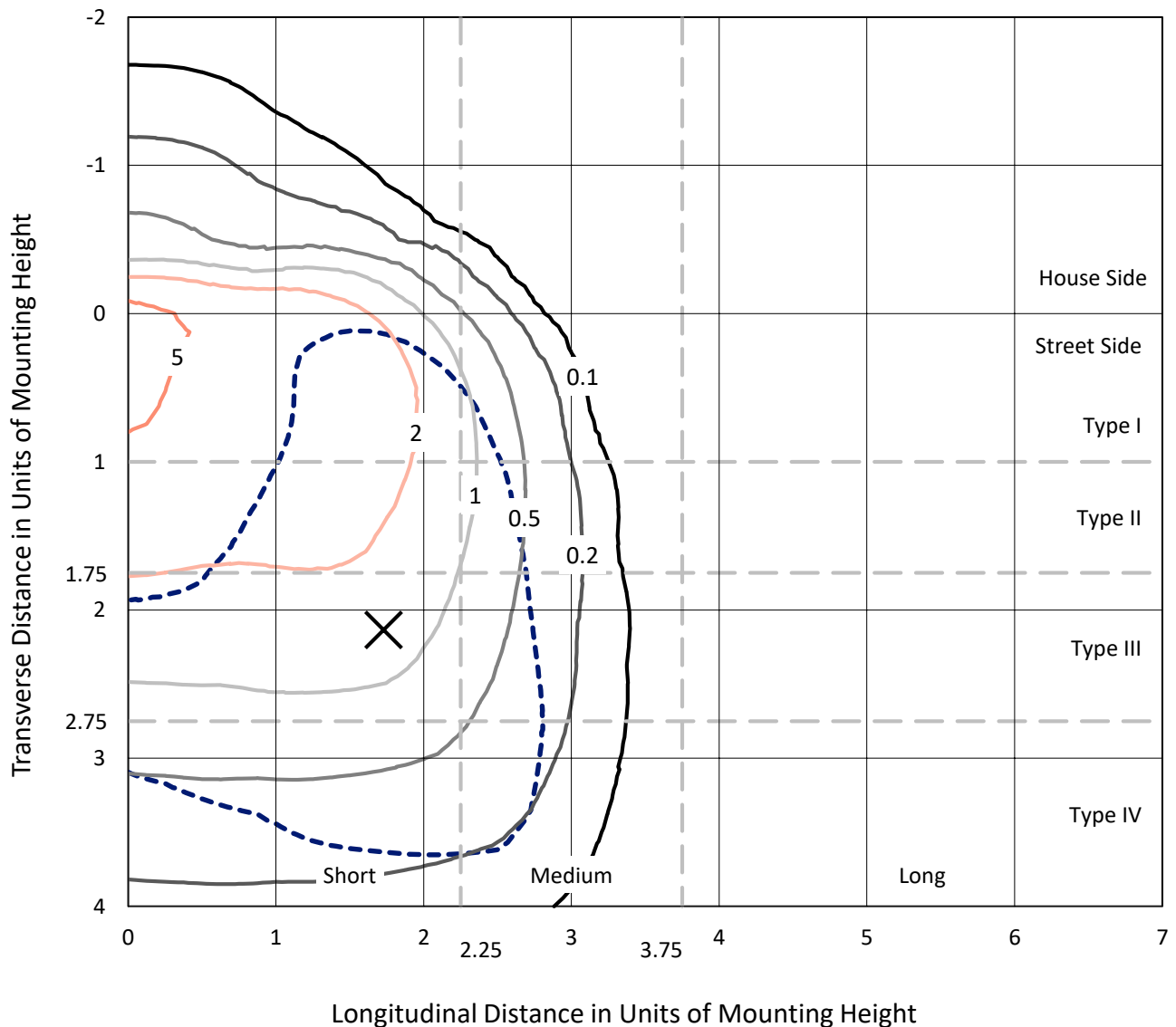
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

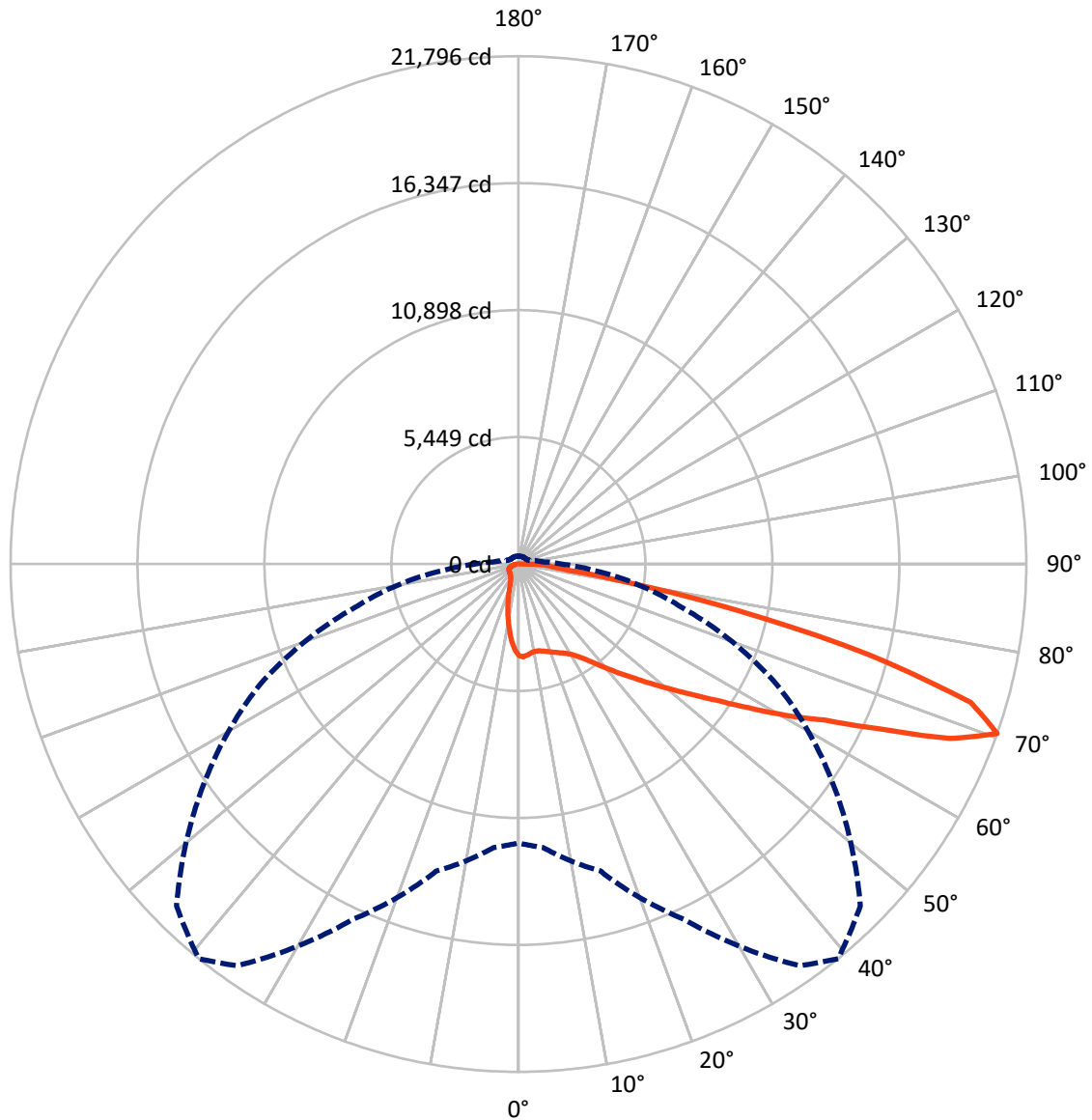
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	2951.2	0.0	2951.2
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	22997.2	0.0	22997.2
	% Fixture	88.6	0.0	88.6
Total	Lumens	25948.4	0.0	25948.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.1	1.3
10°-20°	845.0	3.3
20°-30°	1315.8	5.1
30°-40°	2049.7	7.9
40°-50°	3441.1	13.3
50°-60°	5466.5	21.1
60°-70°	7291.8	28.1
70°-80°	4403.3	17.0
80°-90°	796.9	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°	25948.4	100.0
0°-180°	25948.4	100.0



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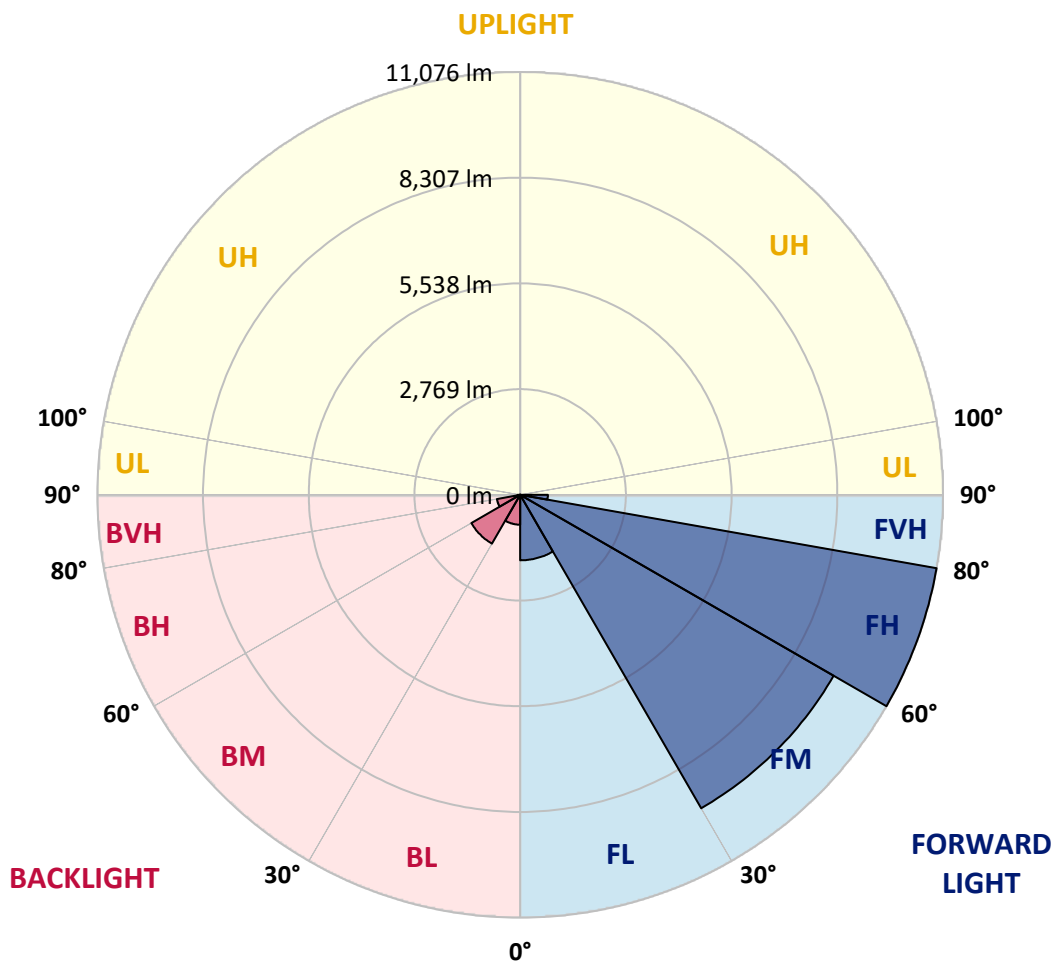
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1716.0	6.6			
FM	(30°-60°)	9480.5	36.5			
FH	(60°-80°)	11075.5	42.7			G4/12000
FVH	(80°-90°)	725.1	2.8			G4/750
BL	(0°-30°)	782.9	3.0	B2/1000		
BM	(30°-60°)	1476.9	5.7	B2/2500		
BH	(60°-80°)	619.6	2.4	B2/1000		G2/1000
BVH	(80°-90°)	71.8	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°	3939.3	3939.3	3939.3	3939.3	3939.3	3939.3	3939.3	3939.3	3939.3	3939.3	3939.3
2.5°	4016.0	4014.5	4004.0	3996.1	3989.6	3986.9	3992.2	3972.3	3955.1	3934.0	3911.7
5°	3985.5	3984.3	3967.1	3951.3	3935.5	3930.2	3928.7	3893.3	3872.1	3840.4	3798.3
7.5°	3952.5	3946.0	3923.5	3897.1	3869.4	3856.2	3843.0	3796.9	3773.2	3741.5	3692.7
10°	3918.2	3910.3	3889.2	3862.8	3836.5	3816.7	3794.3	3749.3	3724.4	3700.6	3643.9
12.5°	3882.7	3876.0	3870.7	3858.8	3840.4	3823.2	3806.1	3767.9	3741.5	3713.8	3647.7
15°	3877.4	3874.7	3886.5	3894.5	3883.9	3873.4	3854.9	3822.0	3794.3	3766.6	3680.7
17.5°	3919.6	3918.2	3948.6	3969.7	3964.4	3946.0	3920.9	3883.9	3861.5	3837.7	3730.9
20°	4011.9	4018.5	4055.5	4083.2	4056.7	4030.3	3989.6	3938.1	3926.2	3915.6	3782.4
22.5°	4186.1	4192.7	4219.1	4229.6	4160.9	4122.7	4066.0	4000.1	3992.2	4000.1	3844.3
25°	4457.8	4451.2	4447.2	4407.8	4282.4	4223.0	4150.4	4081.9	4085.9	4121.5	3931.4
27.5°	4818.0	4782.3	4727.1	4608.2	4409.1	4343.0	4254.7	4191.3	4216.5	4285.1	4062.0
30°	5191.3	5151.8	5023.9	4829.8	4575.2	4502.8	4403.8	4332.5	4398.6	4506.6	4236.1
32.5°	5537.1	5531.8	5344.3	5095.0	4804.9	4741.6	4642.5	4562.0	4668.9	4833.8	4497.5
35°	5914.4	5926.2	5701.9	5402.4	5114.9	5048.8	4977.7	4917.0	5059.4	5286.3	4876.1
37.5°	6318.0	6341.8	6076.7	5738.8	5468.4	5440.8	5398.5	5372.1	5592.4	5906.4	5405.1
40°	6857.7	6833.9	6465.8	6118.9	5902.5	5901.1	5887.9	5919.7	6286.3	6716.4	6084.5
42.5°	7435.5	7365.6	6878.7	6526.5	6378.8	6423.6	6450.0	6579.2	7121.5	7700.6	6913.0
45°	8058.2	7901.1	7307.5	6957.9	6907.7	7002.7	7092.5	7373.5	8104.2	8820.6	7820.7
47.5°	8555.5	8403.9	7750.8	7410.4	7519.9	7663.7	7836.5	8281.1	9204.7	9977.7	8716.4
50°	8947.4	8848.5	8198.0	7938.1	8194.1	8415.7	8698.0	9308.9	10349.7	11104.4	9546.3
52.5°	9327.3	9253.4	8649.2	8479.0	8985.7	9291.7	9675.6	10411.7	11523.8	12212.5	10244.2
55°	9670.3	9617.6	9134.7	9153.2	9917.0	10315.4	10798.3	11667.7	12803.6	13200.8	10835.3
57.5°	10056.9	9989.6	9688.8	9998.9	11113.7	11630.7	12258.7	13079.3	14004.1	14079.3	11285.0
60°	10446.1	10388.0	10303.6	10975.1	12633.5	13177.0	13771.9	14447.4	15221.9	14761.4	11258.7
62.5°	10783.9	10790.4	10939.5	12000.2	14121.5	14750.9	15476.4	16144.0	16323.5	14880.2	10426.3
65°	11356.4	11460.5	11905.1	13451.4	16216.7	17058.3	17948.9	17842.0	16628.2	13770.7	8641.2
67.5°	12037.1	12220.5	13121.5	15385.5	18864.3	19981.8	20326.2	18225.8	15407.9	11194.0	6159.7
70°	11968.5	12220.5	13646.6	16827.4	21046.5	21795.8	20750.9	16494.9	12235.0	7312.7	3271.7
72.5°	10628.1	10988.2	12576.7	16166.4	20359.1	20293.3	18014.8	12297.0	7269.3	2936.6	1278.4
75°	8100.3	8464.5	9831.3	12771.9	16091.2	15537.2	12782.5	6793.0	2758.7	1166.2	806.0
77.5°	4659.7	4942.0	5997.4	7832.6	10208.6	9640.0	7114.8	3021.2	1343.1	812.6	629.4
80°	2601.6	2758.7	3399.7	3973.7	5002.8	4585.8	3183.5	1877.4	1002.7	589.6	485.5
82.5°	2056.8	2196.5	2749.4	2506.6	2285.0	2108.2	1828.5	1671.6	800.7	372.1	290.2
85°	1796.9	1930.1	2327.1	1973.7	1560.7	1431.4	1485.4	1645.2	622.6	224.2	248.0
87.5°	1664.9	1843.1	2073.8	1521.1	1215.0	1076.4	1370.8	1803.4	200.5	139.9	100.3
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°	3939.3	3939.3	3939.3	3939.3	3939.3	3939.3	3939.3	3939.3	3939.3	3939.3	3939.3
2.5°	3891.8	3870.7	3836.5	3806.1	3758.6	3733.5	3705.9	3686.0	3670.2	3657.0	3678.2
5°	3771.9	3732.3	3659.7	3581.8	3489.5	3417.0	3356.2	3299.6	3259.9	3233.5	3252.0
7.5°	3658.3	3593.7	3480.3	3339.1	3180.8	3046.2	2935.4	2837.7	2770.6	2727.0	2744.1
10°	3593.7	3513.2	3337.8	3116.1	2882.7	2672.8	2498.7	2348.3	2244.1	2184.7	2194.0
12.5°	3577.9	3473.7	3230.9	2926.1	2606.9	2315.3	2070.0	1861.5	1715.0	1638.6	1641.3
15°	3589.7	3456.5	3130.7	2744.1	2340.4	1972.3	1666.3	1412.9	1242.7	1155.7	1154.4
17.5°	3609.6	3443.4	3025.1	2547.6	2070.0	1642.6	1300.8	1052.8	902.3	832.5	827.2
20°	3630.7	3422.3	2906.3	2335.1	1789.0	1336.4	1018.5	824.6	729.6	691.2	688.7
22.5°	3661.0	3403.8	2783.7	2110.8	1513.3	1088.3	837.7	707.1	657.0	637.2	634.6
25°	3709.8	3394.5	2653.1	1877.4	1265.3	910.3	729.6	649.0	620.1	606.9	605.5
27.5°	3791.7	3407.7	2530.3	1650.5	1063.4	790.2	668.9	620.1	599.0	587.1	585.8
30°	3897.1	3448.7	2401.1	1435.4	906.3	708.5	632.0	600.2	583.1	571.2	571.2
32.5°	4072.6	3517.3	2265.2	1249.4	794.2	651.7	604.2	583.1	568.5	559.4	558.0
35°	4331.2	3646.5	2138.5	1095.0	713.8	610.8	580.5	564.7	554.2	548.9	548.9
37.5°	4707.2	3850.9	2026.3	984.3	664.9	583.1	558.0	546.2	539.6	539.6	539.6
40°	5212.4	4133.3	1935.4	910.3	637.2	563.3	540.9	531.6	527.8	529.0	529.0
42.5°	5836.5	4500.1	1874.8	858.9	624.1	551.5	529.0	521.0	517.2	515.8	517.2
45°	6547.6	4917.0	1868.0	820.6	610.8	543.6	521.0	513.2	505.2	499.9	499.9
47.5°	7238.9	5340.5	1922.3	807.3	596.4	534.3	514.5	506.6	494.7	482.8	482.8
50°	7849.7	5700.6	1994.7	812.6	591.1	521.0	503.9	499.9	481.5	468.3	466.9
52.5°	8335.3	5977.6	2054.2	828.4	596.4	511.9	490.7	492.1	472.2	457.7	456.5
55°	8724.3	6159.7	2038.3	844.3	608.2	506.6	478.8	481.5	465.7	451.2	451.2
57.5°	8894.6	6092.5	1862.8	831.1	617.5	507.9	469.6	480.2	466.9	453.9	453.9
60°	8529.1	5494.8	1534.3	773.1	605.5	503.9	465.7	485.5	484.1	471.0	469.6
62.5°	7423.7	4425.0	1190.0	687.4	564.7	484.1	455.1	484.1	498.6	494.7	493.3
65°	5721.8	3151.8	908.9	594.9	509.2	451.2	427.5	453.9	473.6	478.8	477.5
67.5°	3713.8	1931.4	700.6	507.9	447.3	413.0	391.8	403.7	407.7	407.7	405.0
70°	1825.8	1039.6	558.0	427.5	383.9	372.1	360.2	353.6	346.9	341.6	341.6
72.5°	901.1	679.4	459.2	361.5	331.1	325.8	323.2	315.3	310.1	303.4	300.8
75°	666.3	552.7	390.6	304.7	284.9	279.7	284.9	278.4	277.0	271.7	269.1
77.5°	547.4	471.0	336.4	261.1	244.1	234.8	242.7	244.1	245.3	237.5	234.8
80°	444.7	398.4	281.0	216.3	200.5	193.9	199.2	209.8	212.4	200.5	195.2
82.5°	320.5	325.8	226.9	168.9	155.6	150.3	160.9	174.1	176.7	159.5	155.6
85°	269.1	271.7	174.1	120.1	106.9	99.0	116.2	129.3	138.5	121.5	117.4
87.5°	112.2	159.5	100.3	67.4	59.4	51.5	62.1	68.6	83.2	76.5	75.2
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)