

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: P191092

Luminaire Tested: **GLEON-AF-04-LED-E1-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24061.8 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 225
Input Voltage (V): NR
Input Current (A_{in}): 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

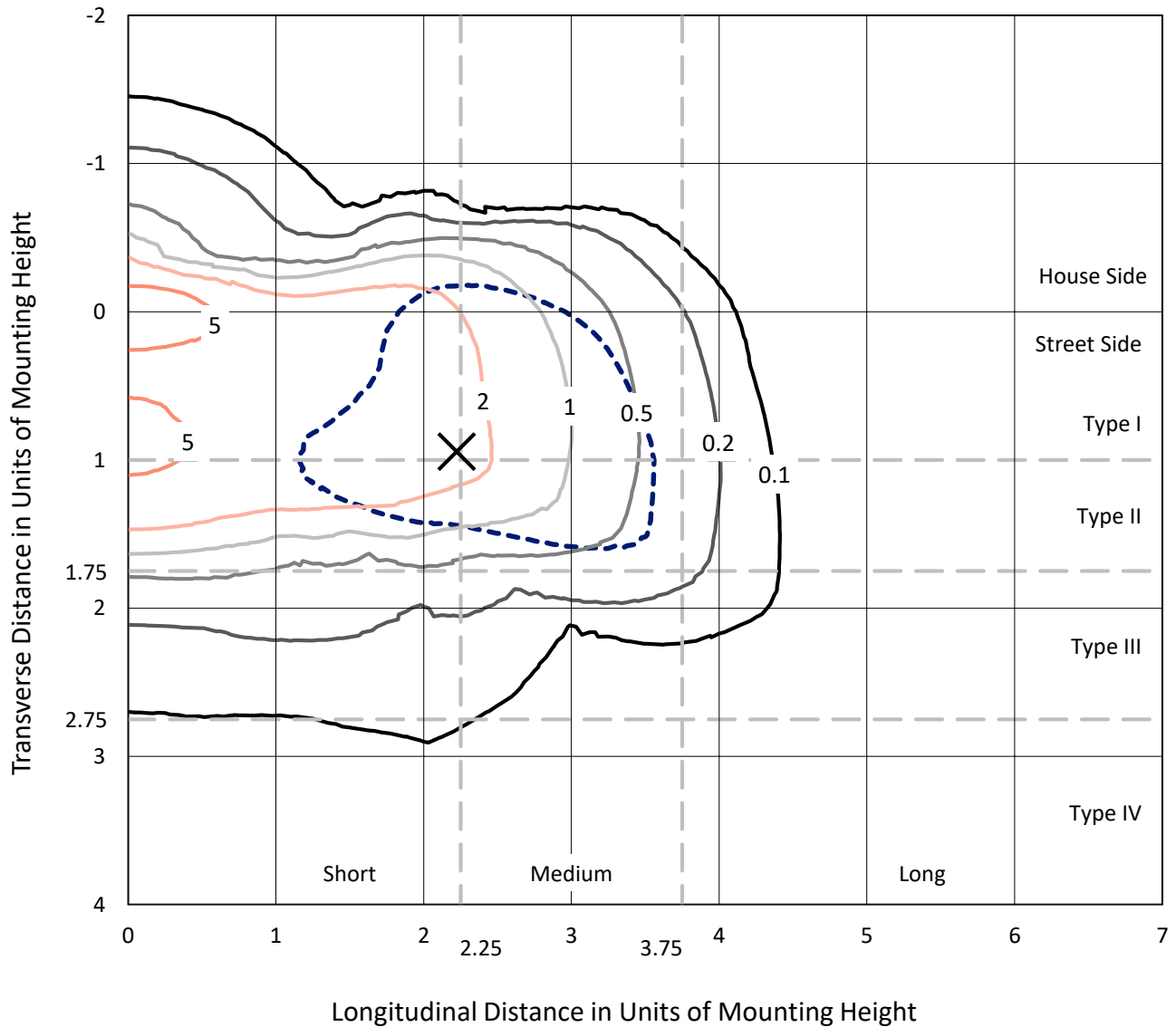


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

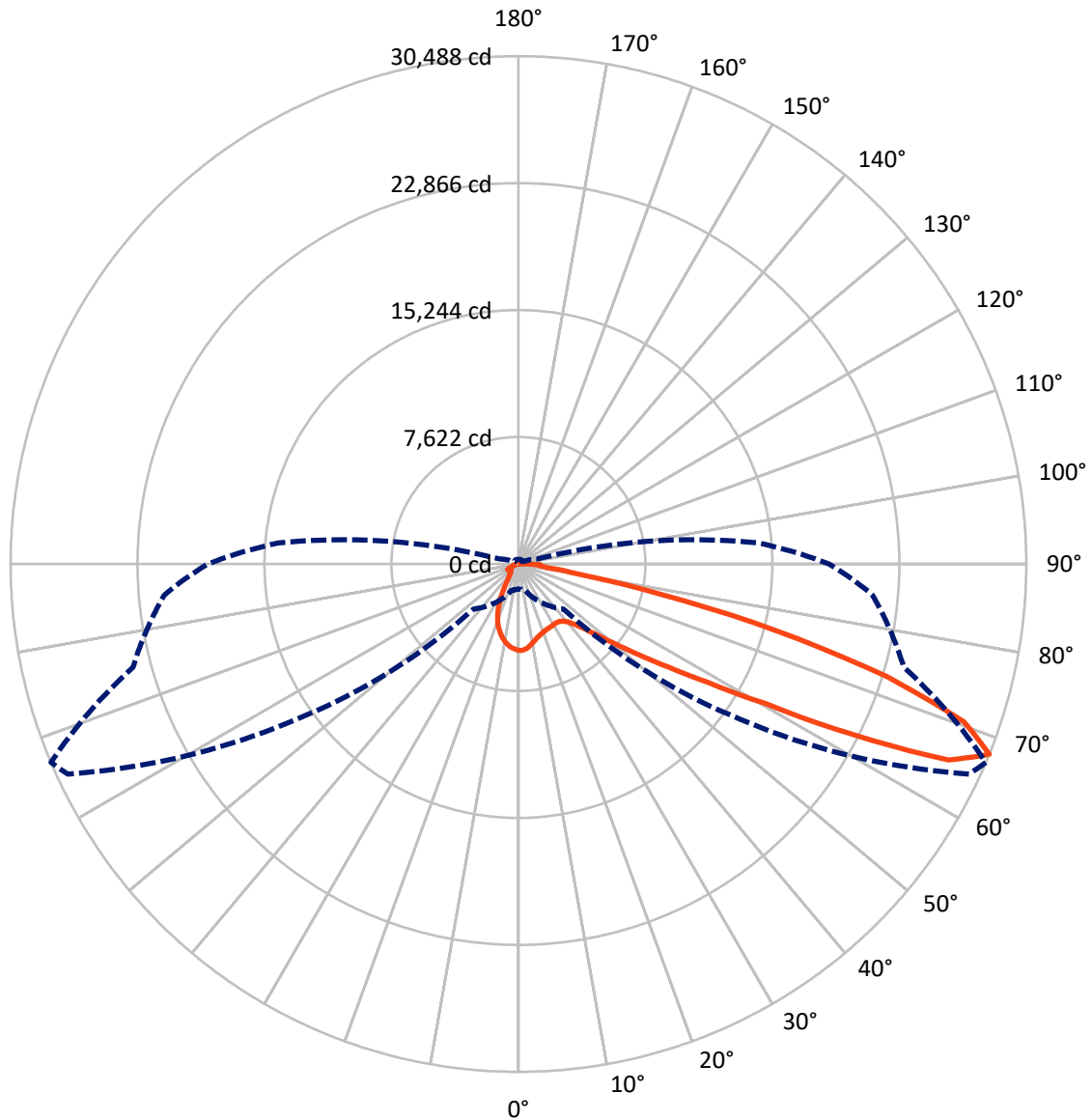


Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3986.8	0.0	3986.8
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	20075.1	0.0	20075.1
	% Fixture	83.4	0.0	83.4
Total	Lumens	24061.8	0.0	24061.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.8	1.8
10°-20°	1024.6	4.3
20°-30°	1388.8	5.8
30°-40°	1974.3	8.2
40°-50°	3303.1	13.7
50°-60°	5225.5	21.7
60°-70°	6656.8	27.7
70°-80°	3486.8	14.5
80°-90°	559.2	2.3
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°	24061.8	100.0
0°-180°	24061.8	100.0



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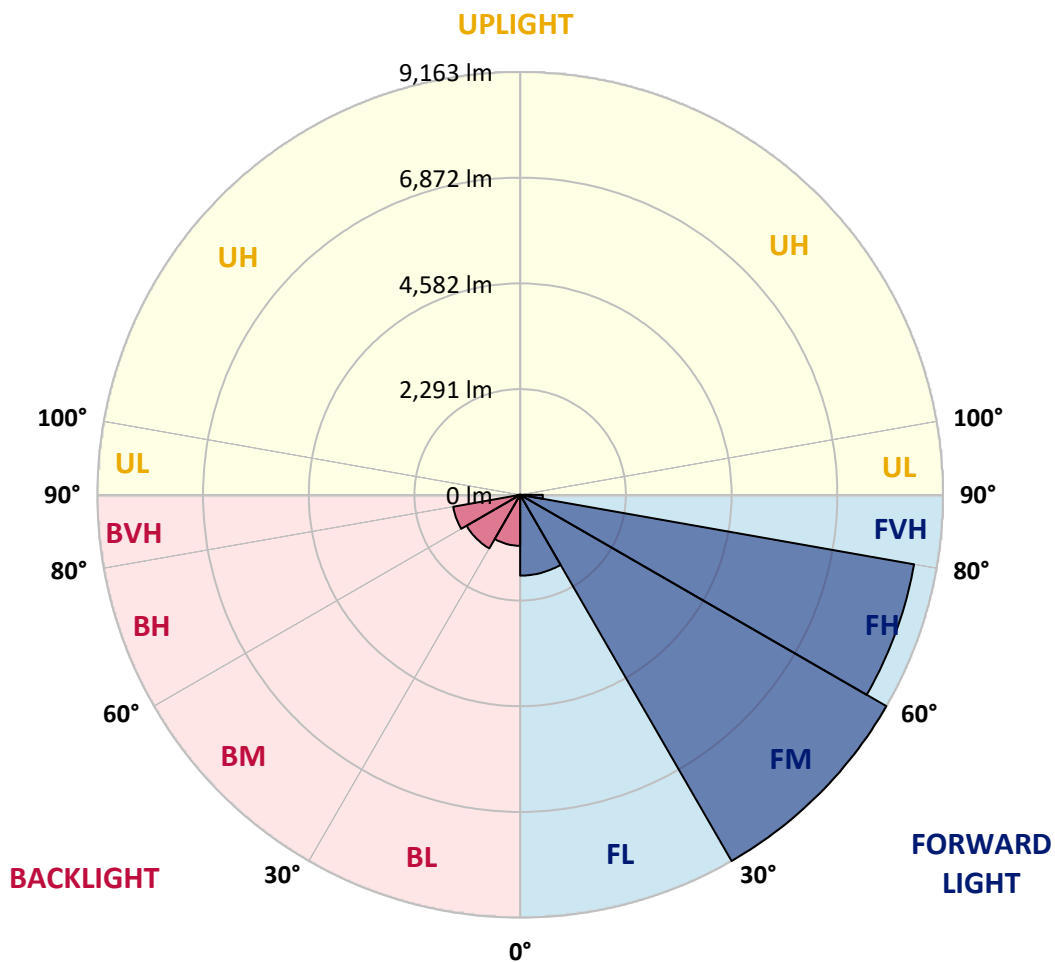
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1751.1	7.3			
FM (30°-60°)	9163.2	38.1			
FH (60°-80°)	8669.0	36.0			G4/12000
FVH (80°-90°)	491.7	2.0			G3/500
BL (0°-30°)	1105.0	4.6	B3/2500		
BM (30°-60°)	1339.7	5.6	B2/2500		
BH (60°-80°)	1474.6	6.1	B3/2500		G3/2500
BVH (80°-90°)	67.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5190.0	5190.0	5190.0	5190.0	5190.0	5190.0	5190.0	5190.0	5190.0	5190.0	5190.0
2.5°	4976.5	4984.8	5010.9	5027.5	5102.3	5134.3	5156.9	5179.4	5183.0	5193.6	5183.0
5°	4454.4	4472.2	4520.8	4575.5	4720.2	4834.2	4953.9	5078.5	5101.0	5181.8	5204.4
7.5°	4049.8	4045.1	4085.4	4150.6	4299.0	4456.8	4666.8	4914.8	4963.5	5145.0	5232.8
10°	3754.3	3750.8	3793.5	3861.1	4002.3	4151.9	4389.2	4728.5	4797.3	5086.8	5260.1
12.5°	3536.0	3537.2	3579.9	3654.7	3798.2	3948.9	4189.8	4548.1	4635.9	5019.2	5288.6
15°	3391.2	3400.7	3435.2	3514.7	3654.7	3805.4	4041.5	4412.9	4511.3	4965.8	5320.6
17.5°	3342.6	3358.0	3369.9	3428.0	3547.9	3698.6	3930.0	4313.2	4417.6	4929.0	5349.1
20°	3387.7	3405.5	3382.9	3403.1	3479.1	3611.9	3842.1	4234.9	4341.7	4887.5	5352.7
22.5°	3581.0	3597.7	3531.2	3473.1	3468.3	3549.0	3769.8	4173.2	4283.5	4856.7	5353.8
25°	3921.6	3932.3	3820.8	3685.5	3553.8	3526.5	3718.7	4130.5	4247.9	4829.4	5331.3
27.5°	4339.4	4347.6	4219.5	4020.1	3755.6	3579.9	3700.9	4105.5	4227.8	4805.6	5293.4
30°	4847.2	4886.3	4714.3	4462.7	4077.1	3737.8	3736.5	4092.5	4205.2	4765.3	5218.6
32.5°	5366.9	5383.5	5264.8	5009.7	4510.2	4015.4	3836.2	4102.0	4199.3	4716.6	5123.7
35°	5893.7	5915.1	5838.0	5632.7	5102.3	4422.3	4030.8	4157.8	4236.0	4700.0	5057.2
37.5°	6576.0	6604.5	6497.7	6260.4	5822.5	4974.1	4354.7	4297.8	4348.8	4747.5	5037.0
40°	7654.6	7641.5	7329.4	6975.9	6610.4	5680.1	4817.5	4535.0	4564.7	4900.5	5098.7
42.5°	8910.0	8878.0	8340.4	7785.2	7476.6	6534.5	5429.7	4946.8	4940.9	5201.9	5315.9
45°	9911.5	9885.4	9401.2	8716.6	8469.7	7507.4	6221.2	5560.2	5516.4	5680.1	5717.0
47.5°	10453.7	10455.0	10176.1	9617.2	9611.2	8743.9	7238.1	6447.9	6372.0	6449.0	6409.9
50°	10263.9	10288.8	10259.2	10081.2	10653.1	10364.7	8565.9	7685.4	7532.4	7608.3	7457.6
52.5°	9345.5	9377.5	9553.1	9826.1	11090.9	12323.8	10516.7	9223.2	9045.2	9017.9	8850.7
55°	7717.4	7756.6	8115.0	8856.6	10726.7	13639.7	13594.6	11183.5	10899.8	10642.4	10571.2
57.5°	5319.4	5384.7	5961.3	7062.5	9548.3	14037.2	17259.9	13977.9	13401.2	12501.8	12518.4
60°	2998.5	3074.4	3754.3	4754.6	7170.5	13605.2	20048.4	18210.4	16993.0	14679.1	14802.5
62.5°	1906.8	1988.7	2504.9	3303.4	4302.5	11279.6	21191.0	24094.6	22548.5	17363.2	17484.2
65°	1543.7	1579.3	1822.6	2726.8	3124.3	6795.6	20323.7	28941.7	28365.1	20769.8	20205.0
67.5°	1506.9	1518.8	1644.6	2289.0	2996.1	3819.6	16211.0	29848.3	30487.9	23951.1	21338.1
70°	1489.1	1530.6	1853.4	2184.5	2869.2	3221.6	9741.8	27363.6	28373.4	24782.8	19830.0
72.5°	722.6	720.3	932.6	1975.6	3232.2	3341.4	5005.0	22140.3	23153.7	21471.1	16295.2
75°	582.6	532.8	509.0	723.8	3107.6	3450.5	3189.6	15234.4	15967.8	14395.6	10017.0
77.5°	552.9	493.6	452.0	453.3	1313.6	3659.4	2701.8	8431.8	8645.4	6502.4	2744.6
80°	458.0	403.5	373.8	421.3	636.0	3485.0	2921.3	3816.0	3501.6	1597.1	913.7
82.5°	318.0	289.5	281.2	353.6	509.0	2483.5	3397.1	2050.4	1719.4	799.7	563.6
85°	203.0	173.3	192.2	257.5	396.3	1146.2	3499.2	1598.4	1270.8	507.9	318.0
87.5°	93.7	75.9	94.9	142.4	258.7	395.2	3329.5	1795.3	1308.8	268.1	200.5
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°	5190.0	5190.0	5190.0	5190.0	5190.0	5190.0	5190.0	5190.0	5190.0	5190.0	5190.0
2.5°	5192.5	5169.9	5152.1	5118.8	5082.1	5046.5	5014.5	4974.1	4962.2	4951.6	4968.2
5°	5209.1	5186.6	5121.3	5019.2	4906.5	4800.9	4695.2	4605.1	4549.4	4518.5	4536.3
7.5°	5234.0	5201.9	5066.7	4879.2	4676.3	4491.2	4300.2	4147.0	4034.3	3980.9	3996.4
10°	5256.5	5194.9	4974.1	4692.9	4396.2	4121.0	3819.6	3570.4	3385.3	3288.0	3311.7
12.5°	5266.0	5167.5	4844.8	4460.4	4053.3	3649.9	3206.1	2833.6	2567.7	2470.4	2450.3
15°	5275.6	5136.6	4702.4	4195.7	3639.2	3068.4	2446.7	2000.6	1779.8	1731.2	1720.5
17.5°	5277.9	5083.2	4541.0	3908.6	3154.0	2376.7	1673.0	1389.5	1390.7	1469.0	1478.5
20°	5253.0	5003.8	4345.3	3551.4	2572.5	1643.4	1148.6	1100.0	1279.1	1474.9	1498.6
22.5°	5196.0	4898.2	4123.3	3134.9	1906.8	1082.2	888.7	942.1	1173.5	1413.2	1440.5
25°	5123.7	4770.0	3861.1	2652.0	1262.5	773.7	745.2	810.4	967.1	1127.3	1142.6
27.5°	5025.1	4618.1	3566.8	2099.1	819.9	637.2	656.2	700.1	764.1	835.3	842.5
30°	4898.2	4436.6	3252.4	1530.6	619.4	573.2	600.4	624.1	651.4	691.8	695.3
32.5°	4752.2	4262.2	2929.6	1057.2	549.4	539.9	561.3	573.2	594.4	619.4	621.7
35°	4630.0	4096.1	2595.0	747.6	519.8	515.0	529.2	534.0	554.1	581.4	583.8
37.5°	4560.0	3960.8	2249.8	602.8	499.5	492.4	500.7	500.7	529.2	569.6	575.5
40°	4564.7	3886.0	1904.4	544.6	482.9	473.4	474.6	474.6	511.4	555.4	558.8
42.5°	4694.1	3905.0	1598.4	522.1	469.8	459.2	453.3	456.8	487.6	516.2	518.5
45°	4997.8	4039.1	1311.1	507.9	456.8	453.3	440.2	439.1	450.9	463.9	463.9
47.5°	5496.2	4303.8	1116.6	498.4	446.1	445.0	429.5	414.1	413.0	417.7	417.7
50°	6306.7	4759.4	986.0	487.6	439.1	429.5	411.7	388.0	379.7	383.3	383.3
52.5°	7521.7	5572.1	936.2	473.4	423.6	408.2	388.0	364.3	357.1	358.3	358.3
55°	9115.3	6820.4	929.0	456.8	407.0	382.1	365.5	347.7	339.3	341.8	341.8
57.5°	11062.4	8546.9	1056.1	430.8	384.4	356.0	346.5	334.6	328.7	332.3	331.0
60°	13429.7	10806.1	1566.2	403.5	361.9	332.3	332.3	322.7	318.0	321.5	320.4
62.5°	16156.4	13401.2	2202.3	383.3	338.2	313.2	318.0	313.2	308.5	310.9	309.6
65°	18574.6	15092.1	2062.3	367.9	314.5	295.4	303.7	301.4	297.8	300.2	299.0
67.5°	18644.7	14465.5	1158.1	351.2	291.8	277.6	289.5	288.4	285.9	288.4	287.1
70°	16639.3	12214.6	652.6	320.4	268.1	256.4	272.9	271.7	269.3	274.0	272.9
72.5°	13331.2	8863.8	477.0	282.4	244.5	233.7	252.8	251.5	251.5	258.7	255.1
75°	7671.2	4561.2	380.8	242.0	219.5	211.2	227.8	229.0	231.4	240.9	233.7
77.5°	2186.9	1421.5	310.9	205.3	188.6	185.2	201.7	204.1	205.3	215.9	206.4
80°	812.8	655.0	256.4	172.1	154.3	155.5	170.8	174.4	175.6	186.3	174.4
82.5°	518.5	431.9	207.7	132.9	121.0	119.9	138.8	143.6	143.6	144.7	137.7
85°	302.6	258.7	156.6	96.2	85.4	81.8	103.2	111.5	108.0	105.6	100.9
87.5°	203.0	178.0	96.2	53.4	46.2	43.9	60.6	66.5	64.0	60.6	57.0
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)