

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: P299259

Luminaire Tested: **GLNA-AF-08-LED-E1-SL2-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299259
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: GLNA-AF-08-LED-E1-SL2-8030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Narrow OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25036.6 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - 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

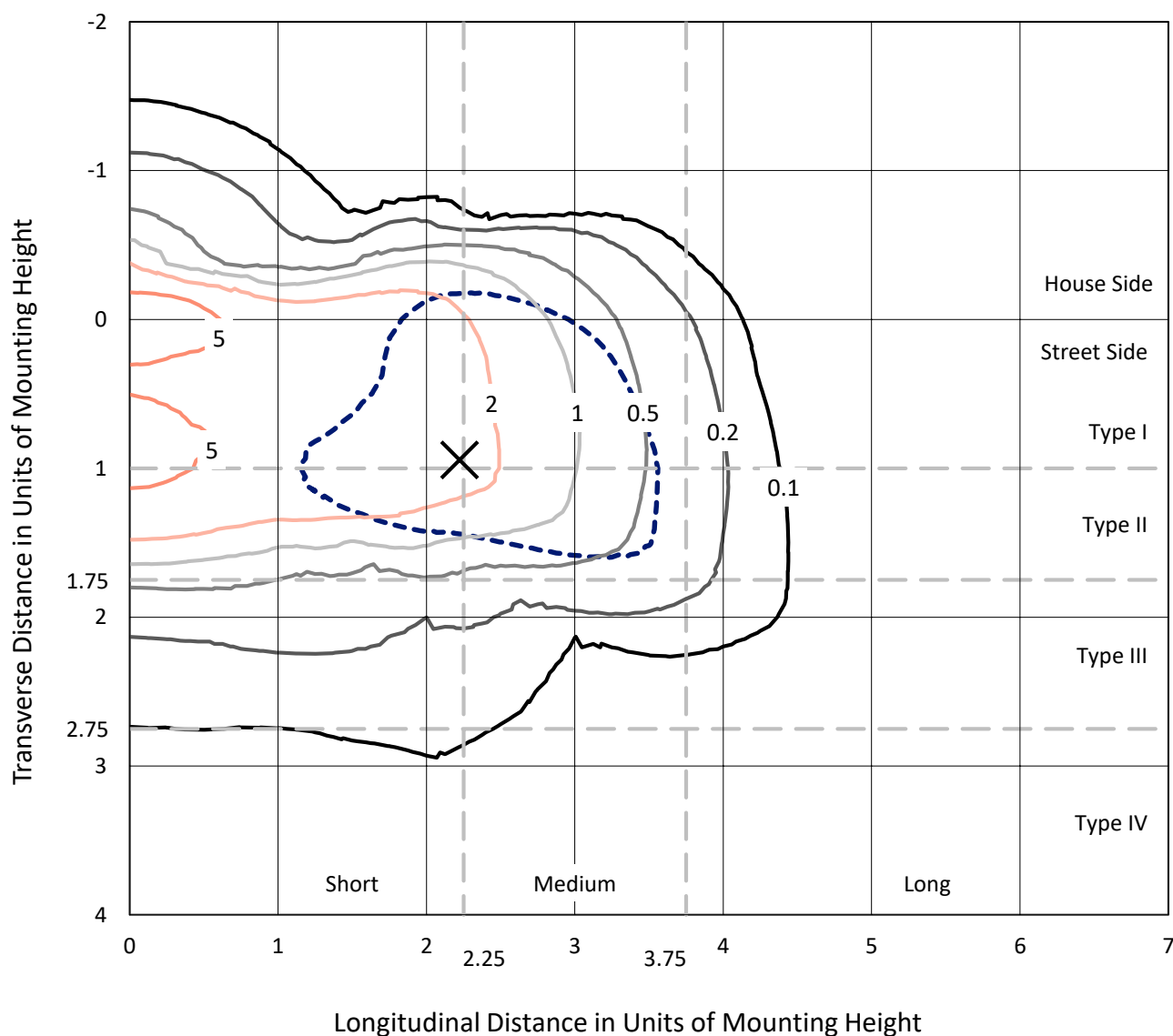


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

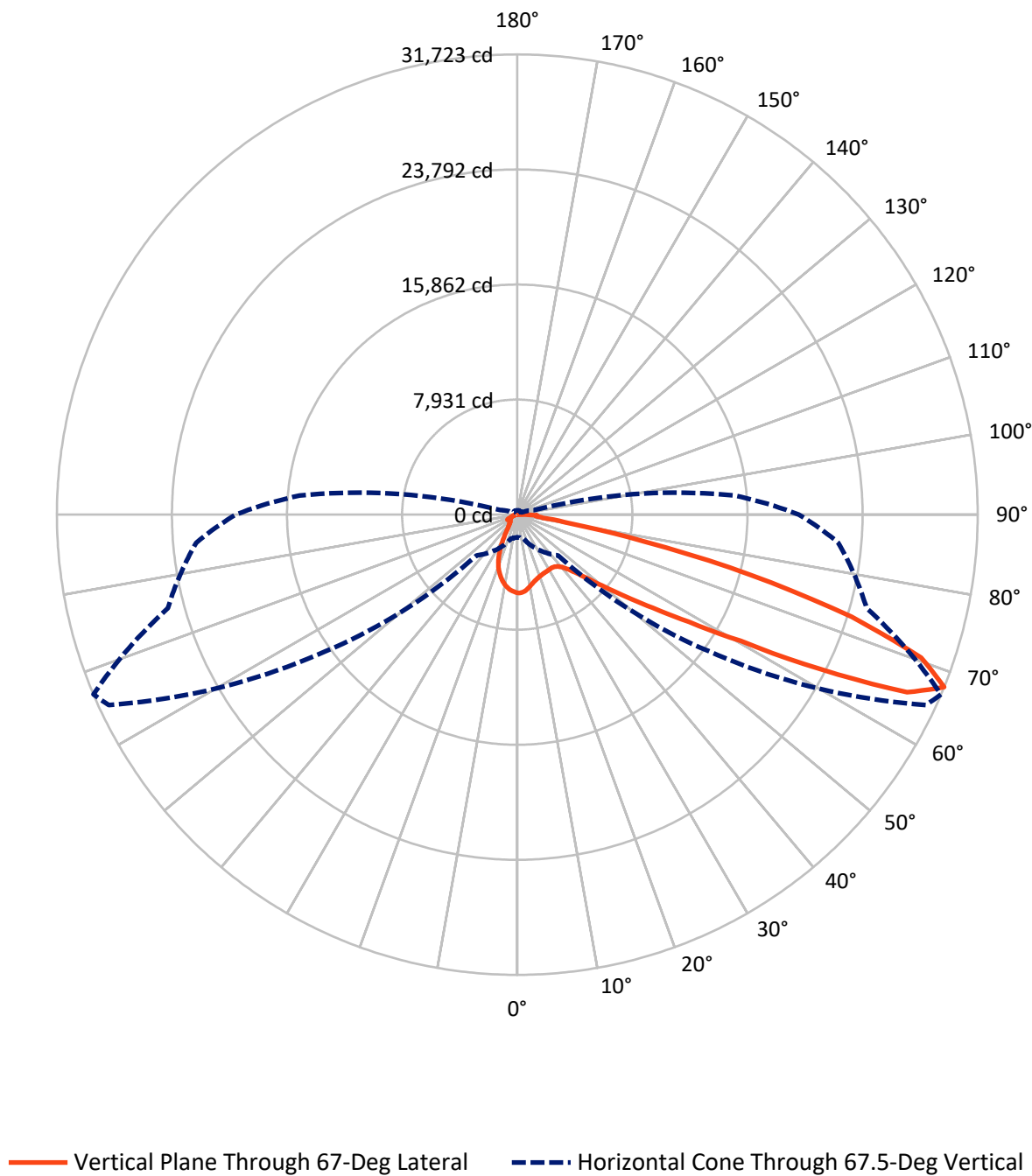


Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4148.3	0.0	4148.3
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	20888.4	0.0	20888.4
	% Fixture	83.4	0.0	83.4
Total	Lumens	25036.6	0.0	25036.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.7	1.8
10°-20°	1066.1	4.3
20°-30°	1445.1	5.8
30°-40°	2054.3	8.2
40°-50°	3436.9	13.7
50°-60°	5437.2	21.7
60°-70°	6926.4	27.7
70°-80°	3628.1	14.5
80°-90°	581.9	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°	25036.6	100.0
0°-180°	25036.6	100.0

Coefficient of Utilization



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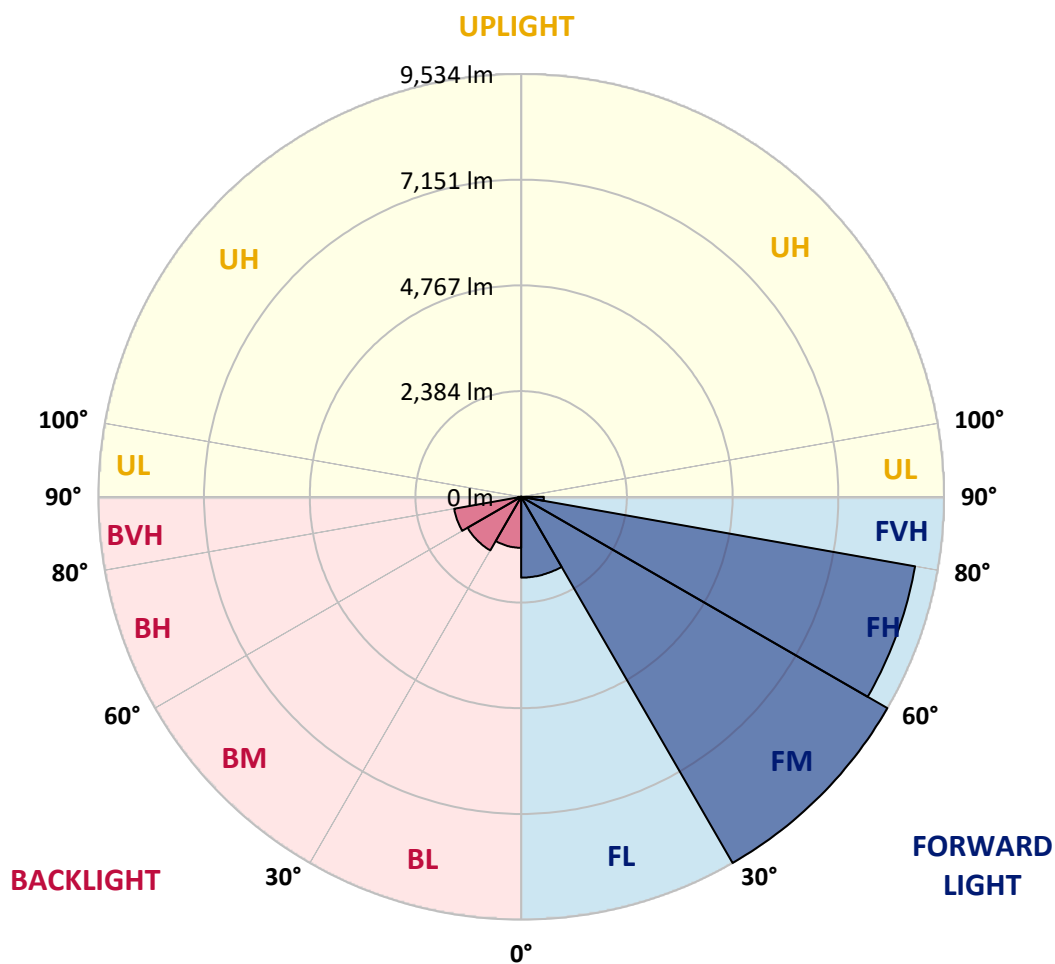
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1822.1	7.3			
FM	(30°-60°)	9534.5	38.1			
FH	(60°-80°)	9020.2	36.0			G4/12000
FVH	(80°-90°)	511.6	2.0			G4/750
BL	(0°-30°)	1149.8	4.6	B3/2500		
BM	(30°-60°)	1393.9	5.6	B2/2500		
BH	(60°-80°)	1534.3	6.1	B3/2500		G3/2500
BVH	(80°-90°)	70.2	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°	5400.3	5400.3	5400.3	5400.3	5400.3	5400.3	5400.3	5400.3	5400.3	5400.3	5400.3
2.5°	5178.1	5186.7	5213.9	5231.2	5309.0	5342.3	5365.8	5389.2	5392.9	5404.0	5392.9
5°	4634.9	4653.4	4704.0	4760.8	4911.4	5029.9	5154.6	5284.3	5307.7	5391.7	5415.2
7.5°	4213.8	4208.9	4250.9	4318.8	4473.1	4637.3	4855.9	5113.9	5164.5	5353.4	5444.8
10°	3906.4	3902.7	3947.2	4017.5	4164.5	4320.0	4567.0	4920.1	4991.7	5292.9	5473.2
12.5°	3679.2	3680.5	3724.9	3802.7	3952.1	4108.9	4359.5	4732.4	4823.8	5222.6	5502.8
15°	3528.6	3538.5	3574.3	3657.0	3802.7	3959.5	4205.2	4591.6	4694.1	5167.0	5536.2
17.5°	3478.0	3494.0	3506.4	3566.9	3691.6	3848.4	4089.1	4487.9	4596.6	5128.7	5565.8
20°	3524.9	3543.4	3520.0	3541.0	3620.0	3758.3	3997.8	4406.5	4517.6	5085.5	5569.5
22.5°	3726.2	3743.4	3674.3	3613.8	3608.9	3692.8	3922.5	4342.3	4457.1	5053.4	5570.7
25°	4080.5	4091.6	3975.6	3834.8	3697.8	3669.4	3869.4	4297.8	4420.0	5025.0	5547.3
27.5°	4515.1	4523.7	4390.4	4183.0	3907.7	3724.9	3850.9	4271.9	4399.0	5000.3	5507.8
30°	5043.5	5084.3	4905.3	4643.5	4242.2	3889.1	3887.9	4258.3	4375.6	4958.3	5430.0
32.5°	5584.3	5601.6	5478.1	5212.7	4692.9	4178.0	3991.6	4268.2	4369.4	4907.7	5331.2
35°	6132.5	6154.7	6074.5	5860.9	5309.0	4601.5	4194.1	4326.2	4407.7	4890.4	5262.1
37.5°	6842.4	6872.0	6760.9	6514.0	6058.4	5175.6	4531.2	4471.9	4525.0	4939.8	5241.1
40°	7964.7	7951.1	7626.4	7258.5	6878.2	5910.3	5012.7	4718.8	4749.7	5099.1	5305.3
42.5°	9271.0	9237.6	8678.3	8100.5	7779.5	6799.2	5649.7	5147.2	5141.1	5412.7	5531.2
45°	10313.0	10285.8	9782.1	9069.7	8812.9	7811.6	6473.3	5785.6	5739.9	5910.3	5948.5
47.5°	10877.2	10878.5	10588.3	10006.8	10000.6	9098.1	7531.3	6709.1	6630.1	6710.3	6669.6
50°	10679.7	10705.6	10674.8	10489.6	11084.7	10784.6	8912.9	7996.8	7837.5	7916.6	7759.8
52.5°	9724.1	9757.4	9940.1	10224.1	11540.2	12823.0	10942.7	9596.9	9411.7	9383.3	9209.2
55°	8030.1	8070.9	8443.7	9215.4	11161.2	14192.3	14145.3	11636.5	11341.5	11073.5	10999.5
57.5°	5534.9	5602.8	6202.9	7348.6	9935.2	14605.9	17959.2	14544.1	13944.1	13008.2	13025.5
60°	3120.0	3199.0	3906.4	4947.2	7461.0	14156.5	20860.6	18948.1	17681.4	15273.8	15402.2
62.5°	1984.1	2069.3	2606.3	3437.3	4476.8	11736.5	22049.6	25070.7	23462.0	18066.6	18192.5
65°	1606.3	1643.3	1896.4	2837.2	3250.8	7070.8	21147.0	30114.3	29514.2	21611.3	21023.6
67.5°	1568.0	1580.3	1711.2	2381.6	3117.5	3974.3	16867.7	31057.5	31723.0	24921.3	22202.6
70°	1549.5	1592.7	1928.5	2273.0	2985.4	3352.1	10136.4	28472.2	29522.9	25786.8	20633.4
72.5°	751.9	749.4	970.4	2055.7	3363.2	3476.8	5207.7	23037.3	24091.7	22340.9	16955.4
75°	606.2	554.4	529.7	753.1	3233.5	3590.4	3318.7	15851.6	16614.6	14978.7	10422.9
77.5°	575.3	513.6	470.4	471.6	1366.8	3807.6	2811.3	8773.4	8995.6	6765.9	2855.7
80°	476.6	419.8	388.9	438.3	661.8	3626.2	3039.7	3970.6	3643.4	1661.8	950.7
82.5°	330.9	301.3	292.6	367.9	529.7	2584.1	3534.8	2133.5	1789.0	832.2	586.5
85°	211.1	180.3	200.0	267.9	412.4	1192.7	3641.0	1663.1	1322.3	528.4	330.9
87.5°	97.5	79.0	98.8	148.2	269.2	411.1	3464.4	1868.0	1361.8	279.0	208.7
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°	5400.3	5400.3	5400.3	5400.3	5400.3	5400.3	5400.3	5400.3	5400.3	5400.3	5400.3
2.5°	5402.8	5379.4	5360.8	5326.3	5288.0	5251.0	5217.6	5175.6	5163.3	5152.2	5169.5
5°	5420.1	5396.6	5328.7	5222.6	5105.3	4995.4	4885.5	4791.7	4733.6	4701.5	4720.1
7.5°	5446.0	5412.7	5271.9	5076.9	4865.7	4673.1	4474.4	4315.1	4197.8	4142.2	4158.3
10°	5469.5	5405.3	5175.6	4883.0	4574.4	4287.9	3974.3	3715.1	3522.4	3421.2	3445.9
12.5°	5479.4	5376.9	5041.1	4641.0	4217.6	3797.8	3336.0	2948.3	2671.8	2570.5	2549.5
15°	5489.2	5344.8	4892.9	4365.7	3786.7	3192.8	2545.8	2081.6	1852.0	1801.3	1790.2
17.5°	5491.7	5289.2	4725.0	4066.9	3281.7	2473.0	1740.9	1445.8	1447.0	1528.5	1538.4
20°	5465.8	5206.5	4521.3	3695.3	2676.7	1710.0	1195.1	1144.5	1330.9	1534.7	1559.4
22.5°	5406.5	5096.6	4290.4	3261.9	1984.1	1126.0	924.8	980.3	1221.1	1470.5	1498.9
25°	5331.2	4963.3	4017.5	2759.4	1313.7	805.0	775.4	843.3	1006.2	1172.9	1189.0
27.5°	5228.7	4805.2	3711.3	2184.1	853.1	663.0	682.8	728.4	795.1	869.2	876.6
30°	5096.6	4616.3	3384.2	1592.7	644.5	596.3	624.7	649.4	677.8	719.8	723.5
32.5°	4944.8	4434.8	3048.3	1100.1	571.6	561.8	584.0	596.3	618.6	644.5	647.0
35°	4817.6	4262.0	2700.2	777.8	540.8	535.8	550.7	555.6	576.6	605.0	607.4
37.5°	4744.7	4121.2	2340.9	627.2	519.8	512.4	521.0	521.0	550.7	592.6	598.8
40°	4749.7	4043.5	1981.6	566.7	502.5	492.6	493.9	493.9	532.1	577.8	581.5
42.5°	4884.3	4063.2	1663.1	543.2	488.9	477.8	471.6	475.3	507.4	537.1	539.5
45°	5200.3	4202.7	1364.3	528.4	475.3	471.6	458.1	456.8	469.2	482.7	482.7
47.5°	5718.9	4478.1	1161.8	518.6	464.2	463.0	446.9	430.9	429.7	434.6	434.6
50°	6562.1	4952.2	1026.0	507.4	456.8	446.9	428.4	403.7	395.1	398.8	398.8
52.5°	7826.4	5797.9	974.1	492.6	440.8	424.7	403.7	379.0	371.6	372.9	372.9
55°	9484.6	7096.7	966.7	475.3	423.5	397.6	380.3	361.8	353.1	355.6	355.6
57.5°	11510.6	8893.2	1098.8	448.2	400.0	370.4	360.5	348.2	342.0	345.7	344.5
60°	13973.7	11243.9	1629.7	419.8	376.6	345.7	345.7	335.8	330.9	334.6	333.4
62.5°	16810.9	13944.1	2291.5	398.8	351.9	325.9	330.9	325.9	321.0	323.5	322.2
65°	19327.2	15703.5	2145.8	382.7	327.2	307.4	316.1	313.6	309.9	312.4	311.1
67.5°	19400.0	15051.6	1205.0	365.5	303.7	288.9	301.3	300.0	297.5	300.0	298.8
70°	17313.4	12709.5	679.1	333.4	279.0	266.7	284.0	282.7	280.3	285.2	284.0
72.5°	13871.3	9222.8	496.3	293.8	254.3	243.2	263.0	261.7	261.7	269.2	265.4
75°	7982.0	4746.0	396.3	251.9	228.4	219.8	237.1	238.3	240.8	250.6	243.2
77.5°	2275.5	1479.1	323.5	213.6	196.3	192.6	209.9	212.4	213.6	224.7	214.8
80°	845.7	681.5	266.7	179.0	160.5	161.7	177.8	181.5	182.7	193.8	181.5
82.5°	539.5	449.4	216.1	138.3	125.9	124.7	144.5	149.4	149.4	150.6	143.2
85°	314.8	269.2	163.0	100.0	88.9	85.2	107.4	116.1	112.4	109.9	104.9
87.5°	211.1	185.2	100.0	55.6	48.2	45.7	63.0	69.1	66.7	63.0	59.3
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)