

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: P192816

Luminaire Tested: **GLEON-AF-08-LED-E1-SL2-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192816
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-08-LED-E1-SL2-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA 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: 29779.7 lumens
Efficiency: N/A
Efficacy: 115.9 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



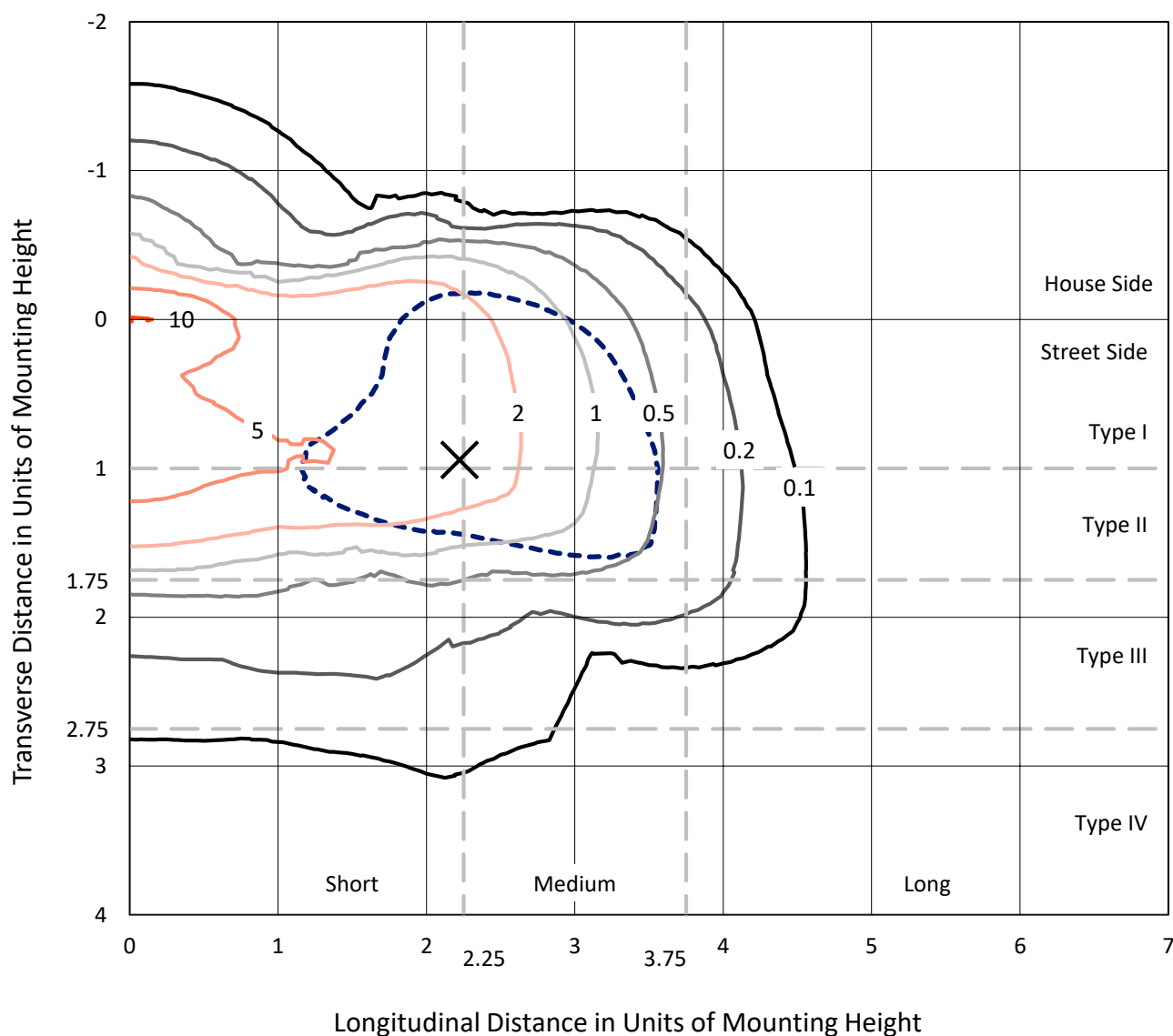
REPORT NUMBER: P192816

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-7030-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

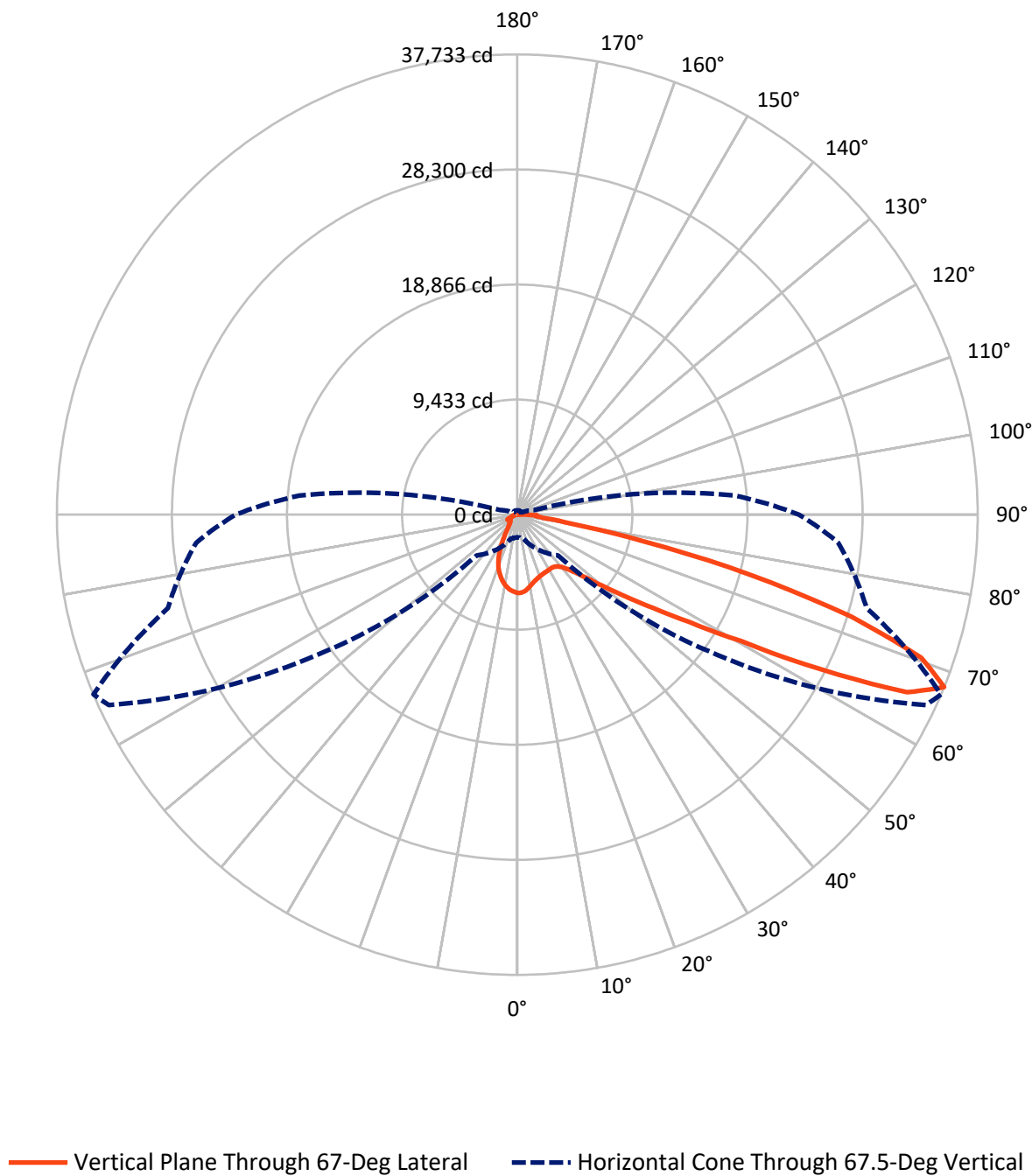


Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P192816

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-7030-600

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4934.2	0.0	4934.2
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	24845.5	0.0	24845.5
	% Fixture	83.4	0.0	83.4
Total	Lumens	29779.7	0.0	29779.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.0	1.8
10°-20°	1268.0	4.3
20°-30°	1718.8	5.8
30°-40°	2443.5	8.2
40°-50°	4088.0	13.7
50°-60°	6467.2	21.7
60°-70°	8238.6	27.7
70°-80°	4315.4	14.5
80°-90°	692.1	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°	29779.7	100.0
0°-180°	29779.7	100.0

Coefficient of Utilization



REPORT NUMBER: P192816

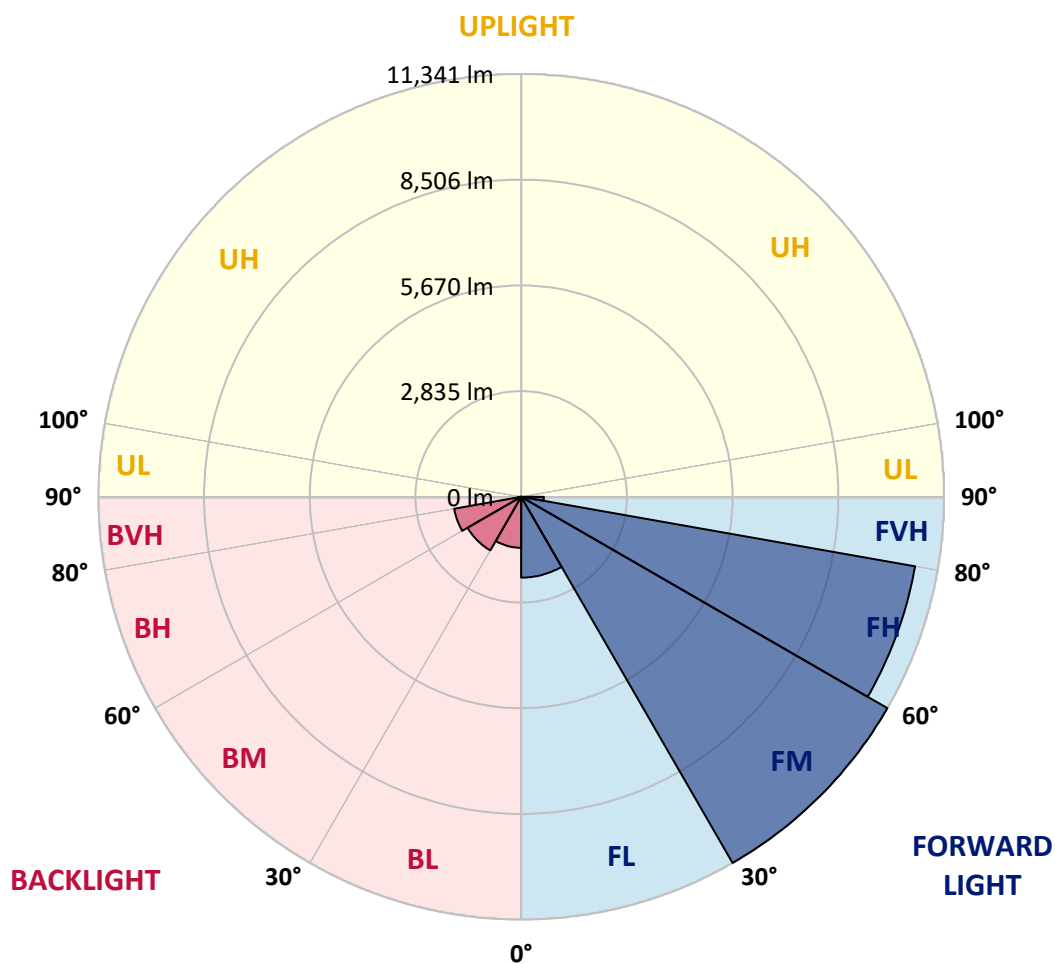
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2167.2	7.3			
FM	(30°-60°)	11340.7	38.1			
FH	(60°-80°)	10729.0	36.0			G4/12000
FVH	(80°-90°)	608.6	2.0			G4/750
BL	(0°-30°)	1367.6	4.6	B3/2500		
BM	(30°-60°)	1658.0	5.6	B2/2500		
BH	(60°-80°)	1825.0	6.1	B3/2500		G3/2500
BVH	(80°-90°)	83.5	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



REPORT NUMBER: P192816

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-7030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6423.5	6423.5	6423.5	6423.5	6423.5	6423.5	6423.5	6423.5	6423.5	6423.5	6423.5
2.5°	6159.1	6169.4	6201.7	6222.2	6314.7	6354.4	6382.3	6410.2	6414.6	6427.8	6414.6
5°	5512.9	5535.0	5595.1	5662.7	5841.9	5982.8	6131.2	6285.3	6313.2	6413.1	6441.1
7.5°	5012.2	5006.3	5056.2	5137.0	5320.5	5515.9	5775.8	6082.7	6142.9	6367.6	6476.3
10°	4646.5	4642.1	4695.0	4778.7	4953.4	5138.5	5432.2	5852.2	5937.3	6295.6	6510.1
12.5°	4376.3	4377.7	4430.6	4523.2	4700.8	4887.2	5185.5	5628.9	5737.6	6211.9	6545.2
15°	4197.0	4208.8	4251.4	4349.8	4523.2	4709.6	5001.9	5461.6	5583.3	6145.9	6584.9
17.5°	4136.9	4156.0	4170.7	4242.6	4390.9	4577.4	4863.7	5338.2	5467.4	6100.4	6620.2
20°	4192.8	4214.6	4186.9	4211.8	4305.8	4470.3	4755.2	5241.2	5373.4	6048.9	6624.6
22.5°	4432.1	4452.7	4370.4	4298.5	4292.6	4392.4	4665.6	5164.9	5301.5	6010.8	6626.0
25°	4853.6	4866.7	4728.7	4561.2	4398.3	4364.5	4602.4	5112.0	5257.3	5976.9	6598.1
27.5°	5370.4	5380.7	5222.1	4975.4	4647.9	4430.6	4580.3	5081.2	5232.4	5947.6	6551.1
30°	5999.0	6047.5	5834.6	5523.2	5045.9	4625.9	4624.4	5065.0	5204.6	5897.7	6458.7
32.5°	6642.2	6662.7	6515.9	6200.3	5581.9	4969.5	4747.8	5076.7	5197.1	5837.5	6341.2
35°	7294.2	7320.7	7225.2	6971.2	6314.7	5473.3	4988.7	5145.8	5242.7	5816.9	6258.9
37.5°	8138.7	8173.9	8041.7	7748.0	7206.2	6156.1	5389.5	5319.1	5382.2	5875.6	6234.0
40°	9473.6	9457.4	9071.1	8633.5	8181.3	7030.0	5962.3	5612.7	5649.5	6065.1	6310.4
42.5°	11027.3	10987.6	10322.4	9635.1	9253.2	8087.3	6720.1	6122.4	6115.0	6438.1	6579.0
45°	12266.7	12234.5	11635.2	10787.9	10482.5	9291.5	7699.6	6881.5	6827.3	7030.0	7075.4
47.5°	12937.8	12939.3	12594.2	11902.6	11895.2	10821.7	8958.1	7980.1	7886.2	7981.5	7933.1
50°	12702.9	12733.7	12697.0	12476.8	13184.6	12827.7	10601.4	9511.8	9322.3	9416.3	9229.7
52.5°	11566.3	11605.8	11823.3	12161.0	13726.5	15252.3	13015.7	11415.0	11194.7	11161.0	10953.9
55°	9551.5	9599.8	10043.3	10961.2	13275.6	16880.9	16825.1	13841.1	13490.0	13171.3	13083.2
57.5°	6583.5	6664.3	7377.9	8740.7	11817.4	17372.9	21361.4	17299.4	16585.8	15472.5	15493.2
60°	3711.0	3805.0	4646.5	5884.4	8874.4	16838.3	24812.6	22537.8	21031.0	18167.3	18320.0
62.5°	2360.0	2461.3	3100.1	4088.4	5325.0	13959.9	26226.7	29820.2	27906.8	21489.2	21639.1
65°	1910.6	1954.6	2255.6	3374.7	3866.6	8410.3	25153.2	35819.2	35105.5	25705.4	25006.3
67.5°	1865.0	1879.7	2035.4	2832.9	3708.0	4727.2	20063.3	36941.2	37732.8	29642.6	26408.8
70°	1842.9	1894.4	2293.9	2703.6	3550.9	3987.1	12056.8	33866.1	35115.8	30672.1	24542.3
72.5°	894.4	891.4	1154.4	2445.1	4000.3	4135.5	6194.4	27401.5	28655.7	26573.3	20167.5
75°	721.0	659.4	630.0	895.8	3846.2	4270.5	3947.4	18854.7	19762.2	17816.4	12397.4
77.5°	684.3	610.9	559.5	560.9	1625.7	4529.1	3343.9	10435.5	10699.8	8047.6	3396.8
80°	566.8	499.4	462.6	521.3	787.1	4313.1	3615.6	4722.8	4333.7	1976.6	1130.8
82.5°	393.6	358.4	348.0	437.6	630.0	3073.7	4204.4	2537.6	2128.0	989.8	697.5
85°	251.1	214.3	237.8	318.7	490.5	1418.6	4330.7	1978.1	1572.8	628.6	393.6
87.5°	116.1	94.0	117.5	176.2	320.1	489.1	4120.7	2221.9	1619.8	331.9	248.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P192816

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-7030-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6423.5	6423.5	6423.5	6423.5	6423.5	6423.5	6423.5	6423.5	6423.5	6423.5	6423.5
2.5°	6426.3	6398.4	6376.4	6335.3	6289.7	6245.7	6206.0	6156.1	6141.5	6128.3	6148.8
5°	6447.0	6419.0	6338.2	6211.9	6072.4	5941.7	5811.1	5699.4	5630.3	5592.2	5614.3
7.5°	6477.8	6438.1	6270.7	6038.6	5787.6	5558.4	5322.0	5132.6	4993.0	4926.9	4946.0
10°	6505.7	6429.3	6156.1	5808.1	5441.0	5100.2	4727.2	4418.9	4189.8	4069.4	4098.8
12.5°	6517.5	6395.5	5996.0	5520.3	5016.5	4517.3	3968.0	3506.9	3178.0	3057.5	3032.5
15°	6529.2	6357.4	5819.8	5192.8	4504.0	3797.7	3028.1	2476.0	2202.7	2142.6	2129.4
17.5°	6532.1	6291.2	5620.1	4837.4	3903.4	2941.5	2070.7	1719.6	1721.2	1818.1	1829.8
20°	6501.3	6192.9	5377.8	4395.4	3183.9	2034.0	1421.6	1361.4	1583.0	1825.4	1854.7
22.5°	6430.8	6062.1	5103.2	3879.9	2360.0	1339.3	1099.9	1166.1	1452.4	1749.0	1782.8
25°	6341.2	5903.5	4778.7	3282.1	1562.5	957.4	922.2	1003.0	1196.8	1395.1	1414.3
27.5°	6219.2	5715.6	4414.4	2597.8	1014.8	788.7	812.2	866.4	945.7	1033.8	1042.7
30°	6062.1	5491.0	4025.3	1894.4	766.6	709.3	743.1	772.5	806.3	856.1	860.5
32.5°	5881.5	5275.0	3625.9	1308.5	679.9	668.2	694.7	709.3	735.8	766.6	769.5
35°	5730.2	5069.4	3211.6	925.2	643.2	637.3	655.0	660.8	685.8	719.6	722.5
37.5°	5643.6	4902.0	2784.4	746.0	618.3	609.4	619.7	619.7	655.0	704.9	712.3
40°	5649.5	4809.5	2357.0	674.0	597.6	585.9	587.4	587.4	632.9	687.2	691.7
42.5°	5809.6	4833.0	1978.1	646.2	581.6	568.3	560.9	565.4	603.5	638.8	641.8
45°	6185.5	4998.9	1622.7	628.6	565.4	560.9	544.8	543.3	558.1	574.1	574.1
47.5°	6802.3	5326.4	1381.9	616.8	552.2	550.6	531.6	512.5	511.0	516.9	516.9
50°	7805.3	5890.2	1220.3	603.5	543.3	531.6	509.5	480.2	470.0	474.3	474.3
52.5°	9309.1	6896.2	1158.7	585.9	524.2	505.3	480.2	450.8	442.1	443.5	443.5
55°	11281.3	8441.2	1149.9	565.4	503.6	472.9	452.4	430.3	420.0	423.0	423.0
57.5°	13691.3	10577.9	1307.0	533.0	475.9	440.6	428.9	414.1	406.8	411.2	409.7
60°	16620.9	13374.0	1938.5	499.4	447.9	411.2	411.2	399.5	393.6	397.9	396.5
62.5°	19995.6	16585.8	2725.6	474.3	418.6	387.7	393.6	387.7	381.9	384.8	383.3
65°	22988.5	18678.4	2552.3	455.3	389.2	365.7	376.0	373.0	368.6	371.6	370.1
67.5°	23075.2	17903.0	1433.3	434.8	361.2	343.6	358.4	356.8	353.9	356.8	355.4
70°	20593.4	15117.2	807.7	396.5	331.9	317.2	337.7	336.3	333.3	339.2	337.7
72.5°	16499.1	10970.0	590.3	349.5	302.5	289.3	312.8	311.3	311.3	320.1	315.8
75°	9494.1	5645.1	471.5	299.6	271.7	261.3	282.0	283.4	286.4	298.2	289.3
77.5°	2706.6	1759.3	384.8	254.0	233.5	229.1	249.6	252.6	254.0	267.2	255.5
80°	1006.0	810.6	317.2	212.9	190.8	192.4	211.4	215.9	217.3	230.5	215.9
82.5°	641.8	534.5	257.0	164.4	149.8	148.4	171.9	177.6	177.6	179.1	170.3
85°	374.4	320.1	193.8	119.0	105.8	101.3	127.8	138.0	133.7	130.7	124.8
87.5°	251.1	220.2	119.0	66.1	57.3	54.3	74.9	82.3	79.3	74.9	70.5
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)