

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: P269550

Luminaire Tested: **GLEON-AF-08-LED-E1-SL2-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269550  
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-SL2-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1200mA 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: 44541.6 lumens  
Efficiency: N/A  
Efficacy: 87.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G5

Input Watts (W): 511  
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

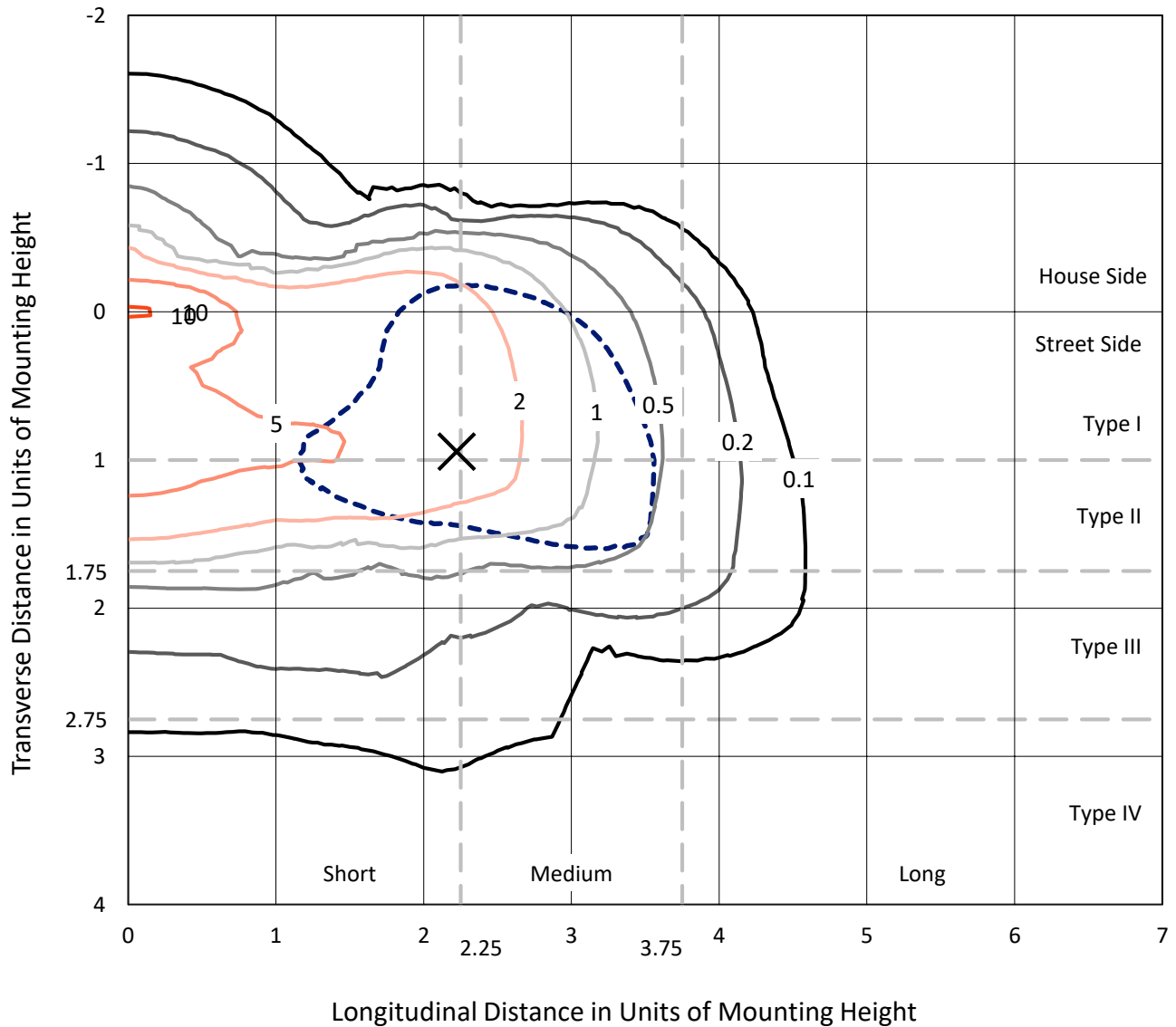


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

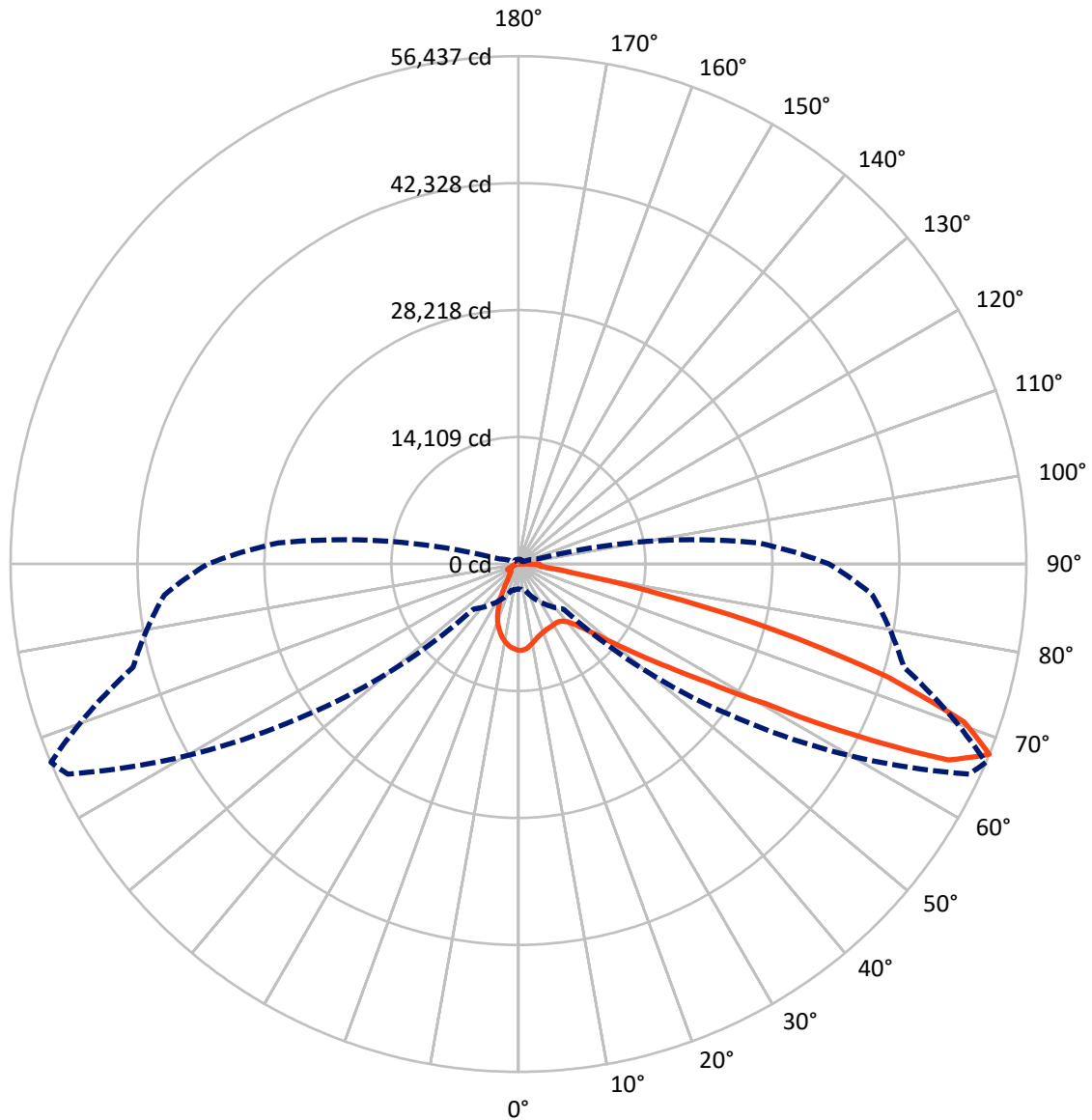


Based on 30 foot mounting height. Maximum calculated value = 10.7 fc  
 Type II - Short - Semi-Cutoff

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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
<b>House Side</b>	Lumens	7380.0	0.0	7380.0
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	37161.5	0.0	37161.5
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	44541.6	0.0	44541.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	819.7	1.8
10°-20°	1896.6	4.3
20°-30°	2570.8	5.8
30°-40°	3654.7	8.2
40°-50°	6114.5	13.7
50°-60°	9673.1	21.7
60°-70°	12322.5	27.7
70°-80°	6454.5	14.5
80°-90°	1035.2	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°	44541.6	100.0
0°-180°	44541.6	100.0

**Coefficient of Utilization**



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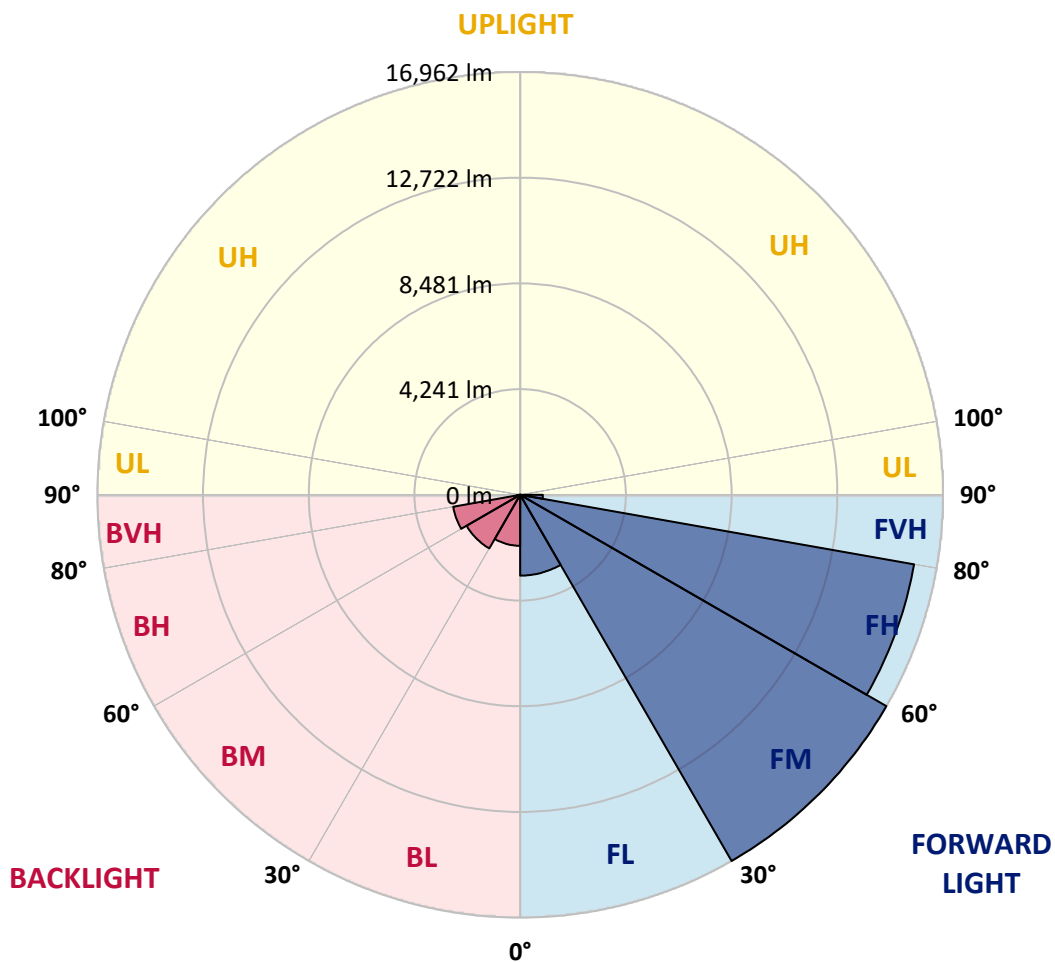
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3241.5	7.3			
FM (30°-60°)	16962.4	38.1			
FH (60°-80°)	16047.4	36.0			G5
FVH (80°-90°)	910.2	2.0			G5
BL (0°-30°)	2045.5	4.6	B3/2500		
BM (30°-60°)	2479.9	5.6	B2/2500		
BH (60°-80°)	2729.6	6.1	B4/5000		G4/5000
BVH (80°-90°)	124.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	9607.6	9607.6	9607.6	9607.6	9607.6	9607.6	9607.6	9607.6	9607.6	9607.6	9607.6
2.5°	9212.2	9227.5	9275.9	9306.6	9445.0	9504.2	9546.0	9587.7	9594.3	9614.1	9594.3
5°	8245.7	8278.6	8368.7	8469.7	8737.8	8948.6	9170.3	9401.0	9442.8	9592.1	9633.9
7.5°	7496.6	7487.9	7562.7	7683.4	7957.9	8250.0	8638.9	9097.9	9188.0	9524.0	9686.7
10°	6949.7	6943.2	7022.2	7147.5	7408.9	7685.5	8124.9	8753.1	8880.5	9416.5	9737.1
12.5°	6545.6	6547.7	6626.8	6765.2	7031.0	7310.0	7755.8	8419.3	8581.8	9291.2	9789.8
15°	6277.6	6295.2	6358.9	6506.1	6765.2	7044.1	7481.4	8168.7	8351.2	9192.4	9849.1
17.5°	6187.5	6216.1	6238.1	6345.6	6567.6	6846.5	7274.8	7984.2	8177.6	9124.3	9901.8
20°	6271.0	6303.9	6262.3	6299.5	6440.2	6686.2	7112.3	7839.2	8037.0	9047.4	9908.5
22.5°	6629.0	6659.9	6536.7	6429.2	6420.4	6569.8	6978.4	7725.2	7929.3	8990.2	9910.6
25°	7259.5	7279.2	7072.7	6822.4	6578.6	6528.1	6883.8	7646.1	7863.6	8939.8	9868.9
27.5°	8032.6	8047.9	7810.8	7441.7	6952.0	6626.8	6851.0	7599.9	7826.2	8895.8	9798.6
30°	8972.7	9045.3	8726.8	8261.1	7547.2	6918.9	6916.8	7575.8	7784.4	8821.1	9660.3
32.5°	9934.7	9965.5	9745.9	9273.7	8348.8	7432.9	7101.3	7593.4	7773.5	8731.0	9484.6
35°	10910.0	10949.6	10806.8	10426.7	9445.0	8186.3	7461.5	7696.6	7841.6	8700.4	9361.4
37.5°	12173.0	12225.8	12028.0	11588.8	10778.3	9207.7	8061.2	7955.7	8050.3	8788.2	9324.1
40°	14169.7	14145.5	13567.8	12913.2	12236.7	10514.8	8917.8	8395.0	8449.9	9071.5	9438.4
42.5°	16493.6	16434.2	15439.2	14411.2	13840.1	12096.1	10051.2	9157.2	9146.3	9629.6	9840.4
45°	18347.4	18299.1	17403.0	16135.5	15678.7	13897.3	11516.4	10292.8	10211.6	10514.8	10582.8
47.5°	19351.2	19353.4	18837.2	17802.7	17791.7	16186.0	13398.7	11935.8	11795.3	11937.9	11865.5
50°	18999.8	19046.0	18991.0	18661.5	19720.2	19186.4	15856.5	14226.7	13943.4	14083.9	13805.1
52.5°	17299.6	17358.9	17684.0	18189.3	20530.8	22812.8	19467.6	17073.5	16744.0	16693.5	16383.7
55°	14286.0	14358.6	15021.8	16394.6	19856.5	25248.8	25165.4	20702.1	20177.1	19700.5	19568.7
57.5°	9847.0	9967.8	11035.3	13073.7	17675.3	25984.6	31950.3	25874.8	24807.4	23142.3	23173.1
60°	5550.5	5691.1	6949.7	8801.5	13273.4	25185.2	37112.1	33709.7	31456.2	27173.0	27401.4
62.5°	3529.8	3681.3	4636.8	6115.0	7964.6	20879.9	39227.4	44602.3	41740.1	32141.4	32365.6
65°	2857.7	2923.5	3373.9	5047.5	5783.4	12579.3	37621.7	53574.9	52507.5	38447.5	37402.1
67.5°	2789.5	2811.5	3044.4	4237.0	5546.1	7070.6	30008.7	55253.0	56436.9	44336.4	39499.7
70°	2756.5	2833.6	3430.9	4043.8	5311.1	5963.5	18033.4	50653.5	52522.8	45876.3	36708.0
72.5°	1337.7	1333.3	1726.5	3657.2	5983.3	6185.4	9264.8	40984.6	42860.4	39745.8	30164.5
75°	1078.4	986.2	942.3	1339.8	5752.7	6387.5	5904.2	28200.9	29558.4	26648.0	18543.0
77.5°	1023.6	913.8	837.0	839.0	2431.5	6773.9	5001.5	15608.4	16003.8	12036.8	5080.5
80°	847.8	746.9	692.0	779.8	1177.3	6451.2	5407.7	7063.9	6481.9	2956.5	1691.2
82.5°	588.7	536.0	520.6	654.5	942.3	4597.3	6288.6	3795.6	3182.8	1480.4	1043.3
85°	375.6	320.6	355.8	476.6	733.6	2121.8	6477.5	2958.7	2352.4	940.0	588.7
87.5°	173.6	140.6	175.7	263.7	478.8	731.4	6163.5	3323.3	2422.8	496.5	371.2
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°	9607.6	9607.6	9607.6	9607.6	9607.6	9607.6	9607.6	9607.6	9607.6	9607.6	9607.6
2.5°	9612.0	9570.2	9537.2	9475.7	9407.6	9341.7	9282.5	9207.7	9185.8	9166.0	9196.8
5°	9642.6	9600.9	9480.2	9291.2	9082.6	8887.0	8691.6	8524.6	8421.4	8364.3	8397.3
7.5°	9688.8	9629.6	9379.1	9032.0	8656.4	8313.8	7960.2	7676.7	7468.1	7369.2	7397.8
10°	9730.5	9616.3	9207.7	8687.1	8138.0	7628.4	7070.6	6609.3	6266.7	6086.6	6130.5
12.5°	9748.0	9565.8	8968.3	8256.6	7503.3	6756.4	5934.9	5245.3	4753.2	4573.1	4535.8
15°	9765.7	9508.6	8704.8	7766.8	6736.7	5680.2	4529.2	3703.4	3294.8	3204.8	3184.9
17.5°	9770.1	9409.8	8406.0	7235.3	5838.4	4399.5	3097.0	2572.0	2574.4	2719.3	2736.9
20°	9724.0	9262.7	8043.7	6574.2	4762.1	3042.2	2126.2	2036.2	2367.8	2730.3	2774.1
22.5°	9618.5	9067.2	7632.9	5803.2	3529.8	2003.2	1645.2	1744.0	2172.3	2616.0	2666.6
25°	9484.6	8830.0	7147.5	4909.1	2337.1	1432.1	1379.3	1500.2	1790.1	2086.8	2115.1
27.5°	9302.2	8548.8	6602.7	3885.6	1517.7	1179.6	1214.7	1296.0	1414.6	1546.3	1559.5
30°	9067.2	8212.8	6020.6	2833.6	1146.5	1060.9	1111.5	1155.4	1205.9	1280.5	1287.1
32.5°	8797.0	7889.9	5423.2	1957.0	1017.1	999.5	1038.9	1060.9	1100.5	1146.5	1151.0
35°	8570.8	7582.4	4803.7	1383.7	962.1	953.3	979.6	988.5	1025.8	1076.3	1080.8
37.5°	8441.2	7332.0	4164.6	1115.9	924.7	911.5	927.0	927.0	979.6	1054.3	1065.3
40°	8449.9	7193.5	3525.4	1008.2	894.0	876.3	878.6	878.6	946.8	1028.0	1034.6
42.5°	8689.3	7228.8	2958.7	966.4	869.7	850.1	839.0	845.7	902.7	955.4	959.8
45°	9251.6	7477.0	2427.1	940.0	845.7	839.0	814.9	812.6	834.6	858.8	858.8
47.5°	10174.3	7966.7	2066.9	922.5	825.9	823.7	795.1	766.6	764.4	773.3	773.3
50°	11674.5	8810.1	1825.3	902.7	812.6	795.1	762.2	718.3	702.8	709.5	709.5
52.5°	13923.6	10314.8	1733.0	876.3	784.1	755.7	718.3	674.4	661.2	663.4	663.4
55°	16873.6	12625.5	1719.8	845.7	753.4	707.2	676.6	643.5	628.3	632.5	632.5
57.5°	20478.0	15821.4	1954.9	797.3	711.6	658.9	641.4	619.4	608.4	615.0	612.9
60°	24860.1	20003.5	2899.4	746.9	670.0	615.0	615.0	597.5	588.7	595.2	593.1
62.5°	29907.6	24807.4	4076.7	709.5	625.9	579.9	588.7	579.9	571.1	575.5	573.3
65°	34384.1	27937.4	3817.5	680.9	582.1	546.9	562.2	557.8	551.3	555.7	553.5
67.5°	34513.7	26777.5	2143.7	650.2	540.3	514.0	536.0	533.8	529.3	533.8	531.5
70°	30801.7	22610.8	1208.1	593.1	496.5	474.5	505.1	503.1	498.6	507.5	505.1
72.5°	24677.8	16407.9	883.0	522.8	452.4	432.8	467.8	465.6	465.6	478.8	472.2
75°	14200.3	8443.3	705.1	448.1	406.4	391.0	421.8	423.9	428.3	445.9	432.8
77.5°	4048.1	2631.4	575.5	380.1	349.3	342.7	373.4	377.7	380.1	399.7	382.1
80°	1504.7	1212.4	474.5	318.4	285.5	287.7	316.4	322.9	325.0	344.9	322.9
82.5°	959.8	799.5	384.4	246.0	224.0	221.8	256.9	265.8	265.8	268.0	254.8
85°	560.2	478.8	290.0	178.0	158.1	151.5	191.1	206.5	200.0	195.6	186.7
87.5°	375.6	329.5	178.0	98.9	85.7	81.2	112.0	123.0	118.5	112.0	105.5
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)