

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: P192916

Luminaire Tested: **GLEON-AF-08-LED-E1-SL3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192916
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46141.3 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 445
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



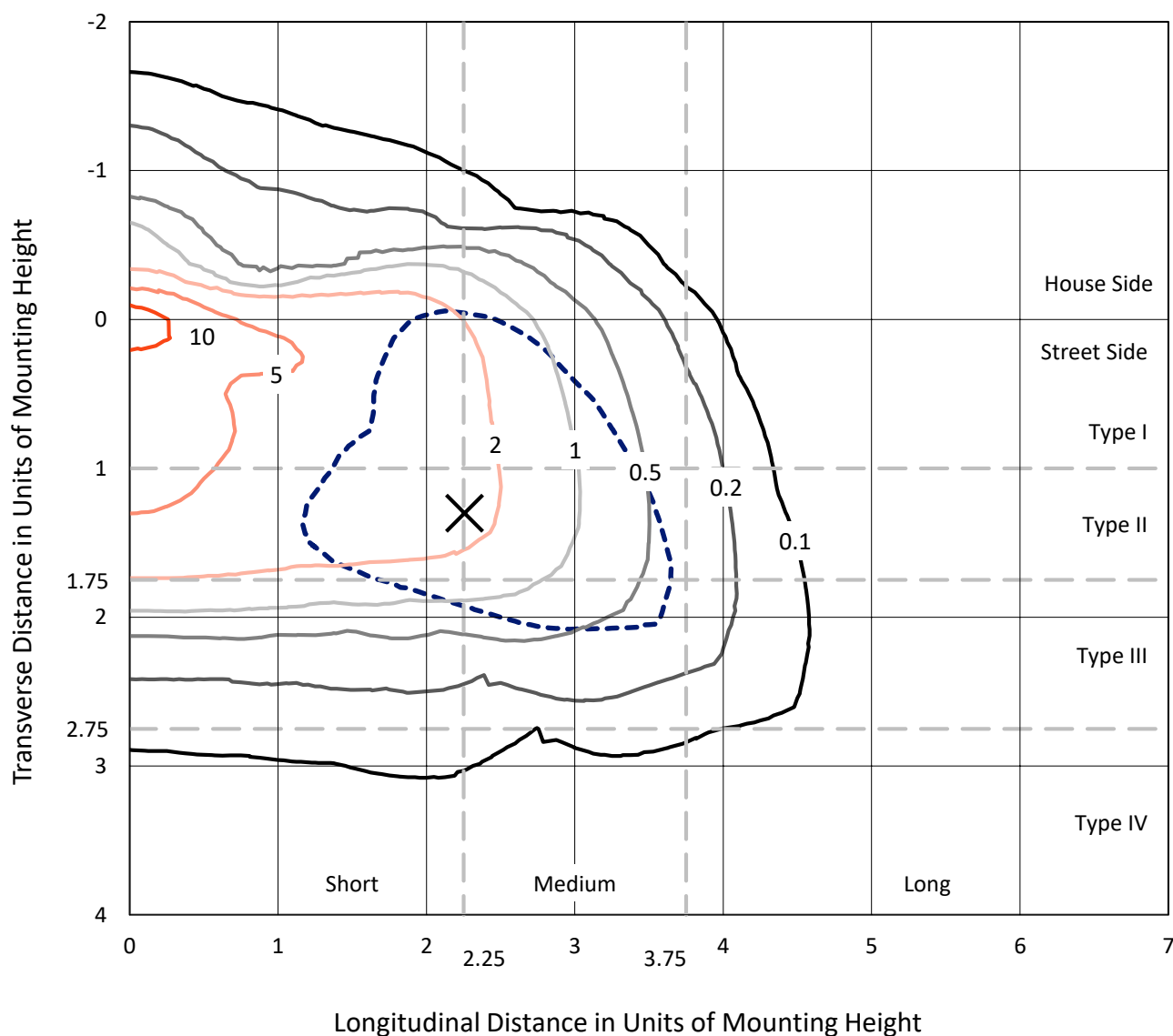
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

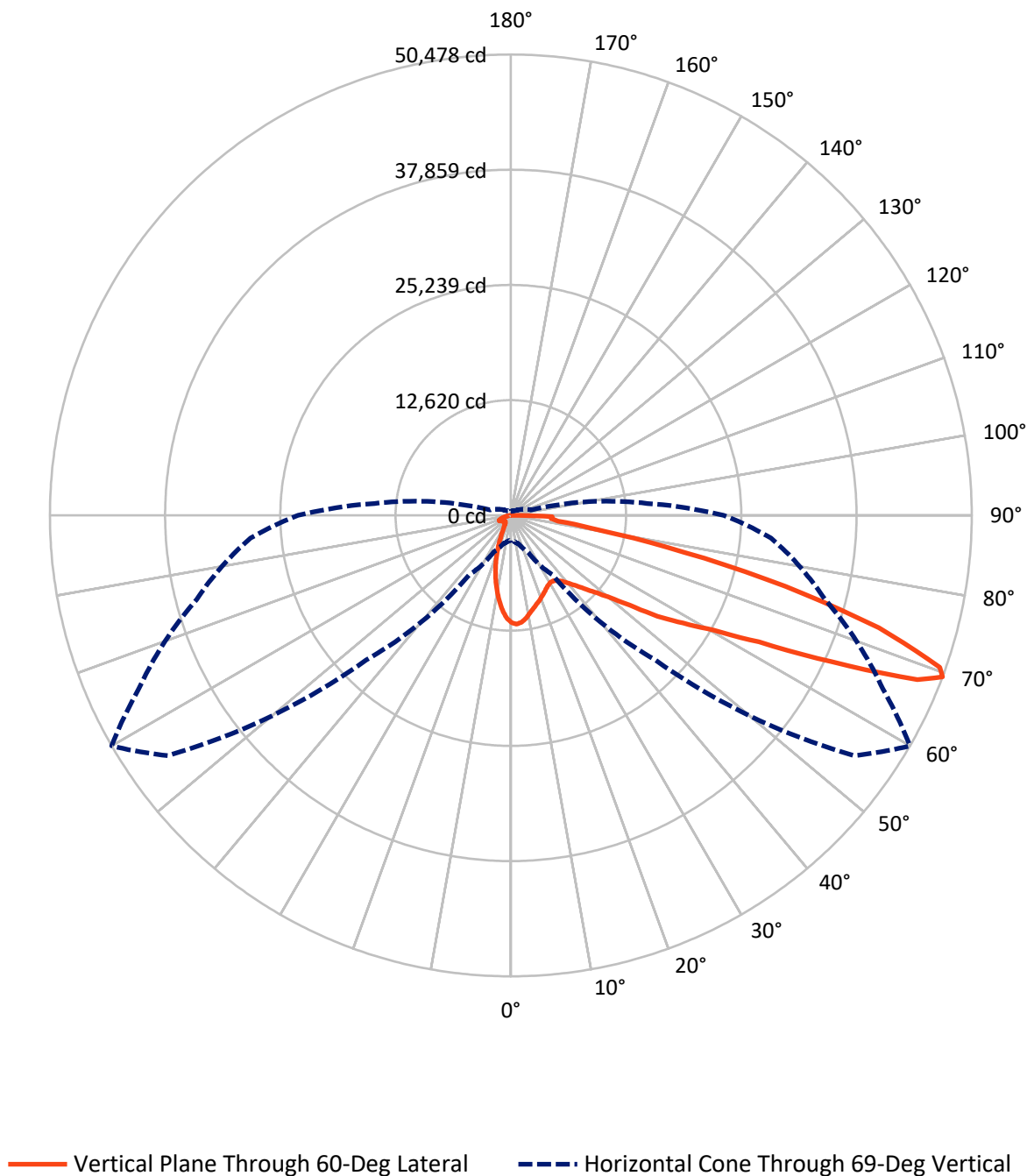


Based on 30 foot mounting height. Maximum calculated value = 13.1 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6564.4	0.0	6564.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	39576.8	0.0	39576.8
	% Fixture	85.8	0.0	85.8
Total	Lumens	46141.3	0.0	46141.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	994.1	2.2
10°-20°	2118.1	4.6
20°-30°	2698.8	5.8
30°-40°	3710.2	8.0
40°-50°	6020.1	13.0
50°-60°	9654.7	20.9
60°-70°	12849.7	27.8
70°-80°	6937.9	15.0
80°-90°	1157.6	2.5
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°	46141.3	100.0
0°-180°	46141.3	100.0

Coefficient of Utilization



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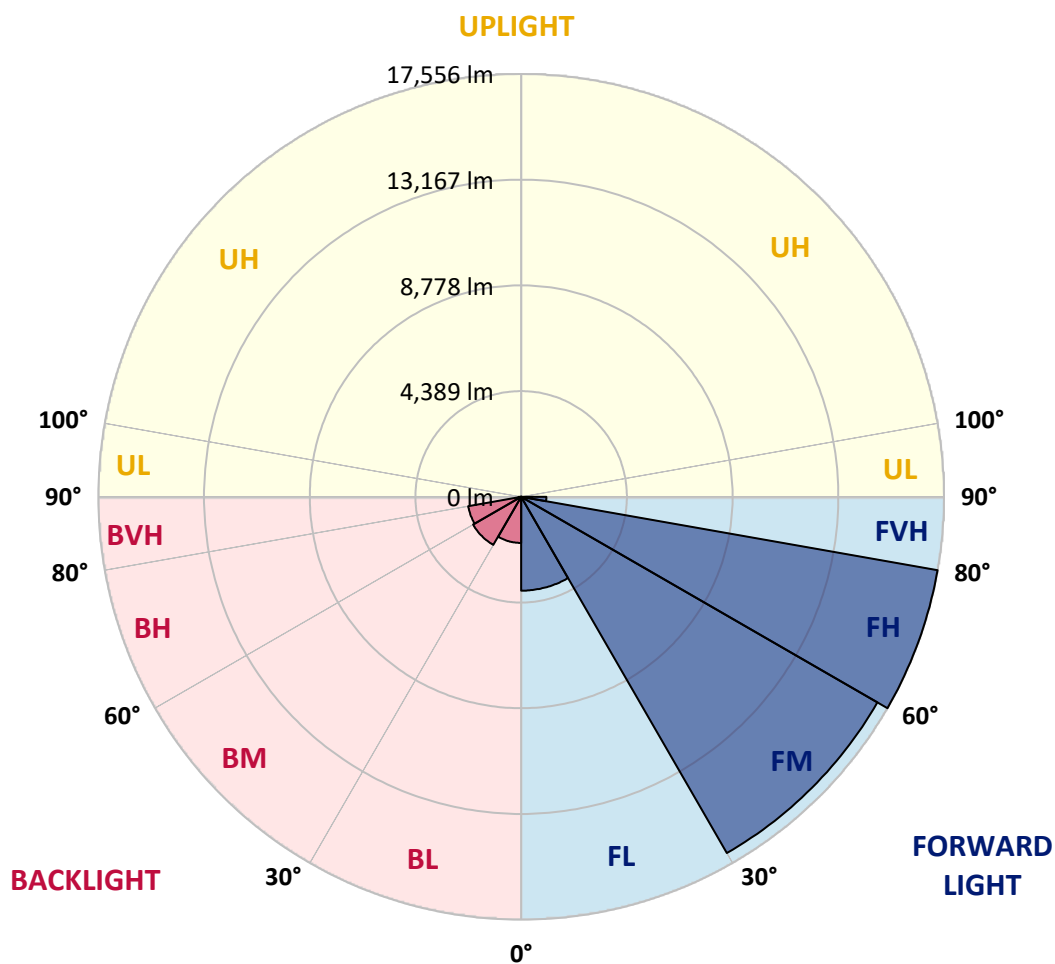
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3896.0	8.4			
FM	(30°-60°)	17078.8	37.0			
FH	(60°-80°)	17555.9	38.0			G5
FVH	(80°-90°)	1046.1	2.3			G5
BL	(0°-30°)	1915.1	4.2	B3/2500		
BM	(30°-60°)	2306.2	5.0	B2/2500		
BH	(60°-80°)	2231.7	4.8	B3/2500		G3/2500
BVH	(80°-90°)	111.5	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	11757.5	11757.5	11757.5	11757.5	11757.5	11757.5	11757.5	11757.5	11757.5	11757.5	11757.5
2.5°	11998.2	12025.0	12013.8	12007.1	12027.1	11996.0	11931.3	11911.3	11880.1	11806.5	11681.7
5°	11547.9	11628.3	11623.8	11683.9	11784.2	11811.0	11782.0	11786.5	11728.6	11637.1	11429.8
7.5°	10770.1	10803.5	10821.4	10952.9	11135.6	11282.7	11407.5	11447.6	11421.0	11343.0	11075.5
10°	9967.7	9994.4	10036.8	10190.6	10422.4	10625.3	10861.5	10997.5	11055.4	11042.1	10743.4
12.5°	9279.0	9305.7	9361.5	9535.3	9811.7	10061.2	10404.5	10574.0	10712.1	10794.6	10473.6
15°	8661.5	8719.6	8773.0	8973.6	9283.4	9611.1	9998.9	10212.9	10426.8	10611.8	10235.2
17.5°	8180.1	8238.0	8269.3	8452.1	8781.9	9183.1	9637.8	9889.7	10157.2	10460.3	9998.9
20°	7901.5	7928.2	7914.8	8017.3	8313.9	8739.5	9279.0	9570.9	9894.1	10317.6	9762.7
22.5°	7823.5	7825.7	7776.6	7765.5	7957.3	8316.0	8895.6	9250.0	9646.7	10224.1	9559.7
25°	8013.0	8006.2	7872.4	7763.3	7783.3	7992.9	8525.6	8938.0	9439.5	10203.9	9403.7
27.5°	8434.2	8454.3	8255.8	8050.8	7848.0	7841.3	8244.7	8679.3	9270.0	10295.3	9336.9
30°	9024.9	9058.2	8846.5	8585.8	8204.6	7890.3	8135.6	8525.6	9165.3	10484.7	9325.8
32.5°	9671.2	9706.9	9546.4	9272.3	8773.0	8193.5	8211.3	8538.9	9160.9	10750.0	9401.5
35°	10360.0	10400.1	10317.6	10085.8	9530.8	8753.0	8501.0	8755.2	9305.7	11155.7	9604.3
37.5°	11128.9	11191.3	11213.6	10993.0	10400.1	9490.7	8975.8	9165.3	9633.4	11719.5	9976.6
40°	12236.7	12323.7	12316.9	12000.5	11396.4	10487.0	9709.1	9758.2	10143.7	12472.9	10571.7
42.5°	14358.7	14376.5	13821.6	13132.8	12493.0	11534.6	10574.0	10533.8	10848.2	13427.0	11447.6
45°	17057.9	16984.3	15749.5	14418.8	13638.8	12738.2	11699.6	11503.4	11741.9	14590.5	12544.3
47.5°	19297.9	19128.4	17568.3	15731.7	14851.2	14046.6	13021.3	12678.0	12809.5	15910.0	13961.9
50°	20075.9	19948.8	18656.0	16823.8	15999.2	15642.5	14648.4	14162.5	14198.1	17483.5	15622.4
52.5°	19908.5	19890.7	19028.1	17543.8	17073.4	17318.5	16953.1	16295.6	15947.8	19231.0	17414.5
55°	19514.1	19552.0	19239.9	18381.8	18301.6	18936.9	19964.3	19478.4	18397.4	20994.0	19266.7
57.5°	18143.4	18241.4	18927.8	19436.1	20278.6	21223.7	22389.4	22251.2	21034.3	22899.8	21468.9
60°	14617.1	14844.5	16685.6	19231.0	22313.6	25269.2	25790.7	25469.8	23753.5	25264.7	24377.6
62.5°	10241.9	10478.1	12666.9	16649.9	21979.2	29838.3	31871.2	30487.0	27658.6	28748.6	28142.2
65°	5483.0	5596.8	7268.5	11552.4	18555.7	30781.3	40757.8	38651.5	33841.5	33043.6	31363.0
67.5°	3024.7	3087.0	3726.8	5833.1	11884.5	27105.8	46419.3	48010.7	41569.3	35903.2	30776.8
69°	2734.9	2792.7	3211.9	4417.7	7952.8	22411.7	45866.5	50478.1	44957.1	35620.1	28610.3
70°	2674.6	2728.2	3104.8	4072.2	6437.1	18473.2	44014.3	49847.4	45764.0	34606.0	26720.1
72.5°	2407.2	2465.2	2830.7	3657.7	5500.9	9209.9	34864.6	42146.4	41549.1	30005.6	20267.5
75°	2244.5	2298.0	2917.7	3581.8	5267.0	5828.6	22984.6	31062.1	30542.8	20989.7	10928.3
77.5°	960.6	956.2	1352.9	3031.3	5345.0	5643.6	12350.3	19404.9	17704.3	8971.4	3138.3
80°	641.9	630.8	641.9	891.5	4901.4	5674.8	6470.6	9849.5	7440.1	2286.9	1546.9
82.5°	552.8	543.9	563.9	543.9	1722.9	6477.2	5500.9	5237.9	3537.3	1299.4	766.8
85°	372.2	356.6	485.8	488.2	813.6	5755.0	6196.4	4424.4	2861.9	771.2	378.9
87.5°	178.3	173.8	283.1	345.5	477.0	2338.1	6951.9	4533.6	2886.4	394.5	180.5
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°	11757.5	11757.5	11757.5	11757.5	11757.5	11757.5	11757.5	11757.5	11757.5	11757.5	11757.5
2.5°	11643.9	11552.4	11463.3	11356.3	11244.9	11120.1	11057.6	10995.2	10979.6	10961.8	10899.3
5°	11322.9	11193.6	10970.7	10725.6	10466.9	10215.0	10023.5	9903.0	9811.7	9764.8	9682.3
7.5°	10908.3	10718.9	10328.8	9905.2	9470.6	9073.9	8730.7	8514.5	8309.3	8213.6	8104.3
10°	10513.8	10230.7	9624.4	9000.3	8376.3	7776.6	7212.7	6813.7	6459.4	6261.0	6120.6
12.5°	10175.0	9787.1	8946.8	8102.1	7246.2	6392.5	5547.7	4883.6	4328.6	4036.6	3887.2
15°	9845.2	9377.0	8302.7	7230.6	6131.7	4970.4	3860.4	3107.2	2647.9	2465.2	2402.7
17.5°	9546.4	8946.8	7656.4	6352.5	4981.5	3577.3	2594.5	2179.8	2003.9	1943.6	1923.5
20°	9223.2	8512.2	6985.4	5434.1	3782.4	2500.8	2026.1	1843.3	1771.9	1754.1	1745.2
22.5°	8911.1	8084.2	6343.5	4451.1	2717.1	1930.3	1740.8	1665.0	1653.8	1669.5	1669.5
25°	8645.9	7700.9	5650.3	3423.6	1994.8	1624.9	1558.0	1540.2	1582.5	1640.5	1651.7
27.5°	8447.6	7386.6	4912.6	2527.6	1589.1	1413.2	1410.9	1439.9	1544.6	1656.1	1678.3
30°	8311.6	7087.9	4123.5	1823.2	1332.9	1243.7	1279.4	1341.8	1495.6	1653.8	1696.2
32.5°	8242.5	6867.3	3301.0	1410.9	1141.2	1092.1	1152.3	1228.2	1379.7	1526.8	1582.5
35°	8296.0	6704.5	2525.3	1176.8	1007.5	969.5	1032.0	1105.4	1194.8	1257.1	1299.4
37.5°	8496.6	6639.9	1905.7	1054.3	916.0	880.4	929.5	971.8	1007.5	1025.3	1045.4
40°	8929.0	6709.1	1526.8	991.8	864.8	820.2	840.3	855.9	878.2	896.0	904.8
42.5°	9566.5	6916.3	1368.6	967.4	838.0	773.4	768.9	775.6	804.5	838.0	844.8
45°	10458.1	7281.8	1357.4	982.9	824.7	735.6	715.4	724.4	768.9	820.2	829.2
47.5°	11597.0	7839.1	1446.6	1029.8	835.9	715.4	682.0	693.1	748.9	818.1	829.2
50°	12976.7	8616.9	1596.0	1098.8	884.9	719.9	670.9	677.6	735.6	811.4	822.5
52.5°	14606.0	9720.2	1758.6	1165.7	936.2	748.9	679.8	664.2	717.8	784.6	797.9
55°	16418.2	11135.6	1925.8	1225.9	962.9	784.6	697.6	646.4	684.3	740.0	751.1
57.5°	18642.6	13114.9	2215.6	1283.9	980.7	809.1	715.4	628.6	641.9	682.0	690.9
60°	21653.9	15914.3	2725.9	1379.7	1020.8	818.1	713.3	613.0	599.7	621.9	626.3
62.5°	25262.5	18954.7	3151.7	1500.0	1087.6	824.7	700.0	601.8	563.9	563.9	568.3
65°	27404.4	19768.2	2915.4	1600.3	1143.4	818.1	684.3	590.6	537.1	512.7	514.8
67.5°	25587.9	17385.5	2498.6	1620.5	1141.2	786.7	659.7	570.6	510.5	472.5	470.3
69°	23312.2	15000.5	2311.4	1566.9	1087.6	746.7	628.6	548.3	490.3	450.2	448.0
70°	21477.7	13545.1	2188.8	1509.0	1029.8	717.8	603.9	528.3	474.7	436.8	432.4
72.5°	15615.8	8875.5	1870.1	1297.2	849.2	601.8	521.6	463.6	423.5	401.2	396.7
75°	7803.4	4232.7	1517.9	1052.0	650.8	481.4	428.0	387.9	367.7	363.3	361.1
77.5°	2563.2	1939.2	1085.5	784.6	483.7	376.7	345.5	316.6	312.1	325.4	321.0
80°	1408.7	1127.8	688.8	519.3	329.9	276.4	271.9	256.3	263.0	285.2	280.8
82.5°	717.8	586.1	425.7	312.1	222.9	198.5	216.3	207.3	216.3	236.2	234.1
85°	354.4	321.0	269.7	189.4	147.1	127.1	153.8	160.5	165.0	180.5	180.5
87.5°	205.1	189.4	142.7	89.1	73.5	66.8	89.1	87.0	102.4	111.5	109.3
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)