

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: P192714

Luminaire Tested: **GLEON-AF-06-LED-E1-AFL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-AFL-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35324.6 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 333
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

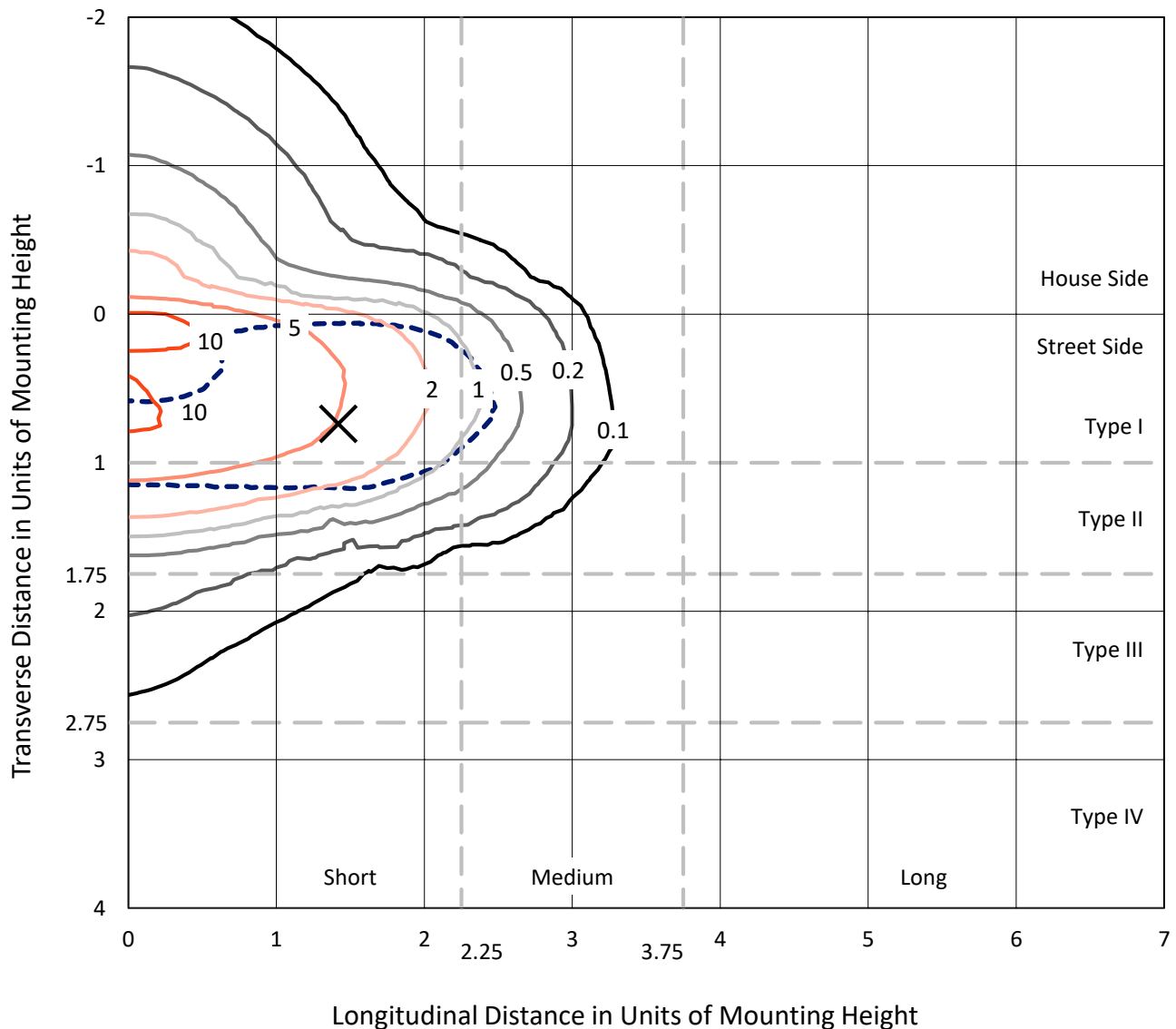


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

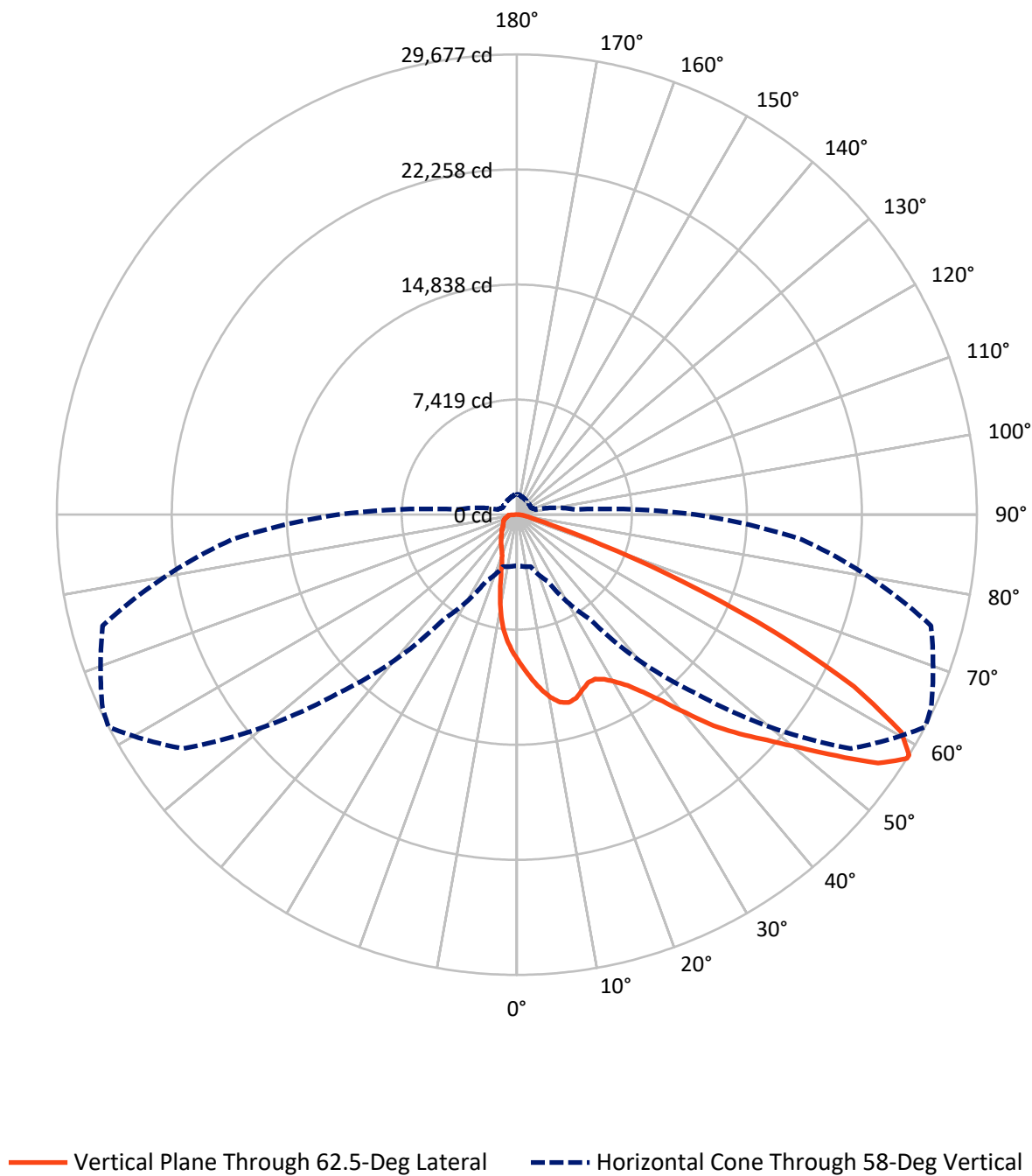


Based on 30 foot mounting height. Maximum calculated value = 12.7 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5387.1	0.0	5387.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	29937.5	0.0	29937.5
	% Fixture	84.7	0.0	84.7
Total	Lumens	35324.6	0.0	35324.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	839.2	2.4
10°-20°	2145.1	6.1
20°-30°	3467.6	9.8
30°-40°	5504.9	15.6
40°-50°	8054.8	22.8
50°-60°	8424.6	23.8
60°-70°	4977.3	14.1
70°-80°	1402.1	4.0
80°-90°	509.0	1.4
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°	35324.6	100.0
0°-180°	35324.6	100.0

Coefficient of Utilization



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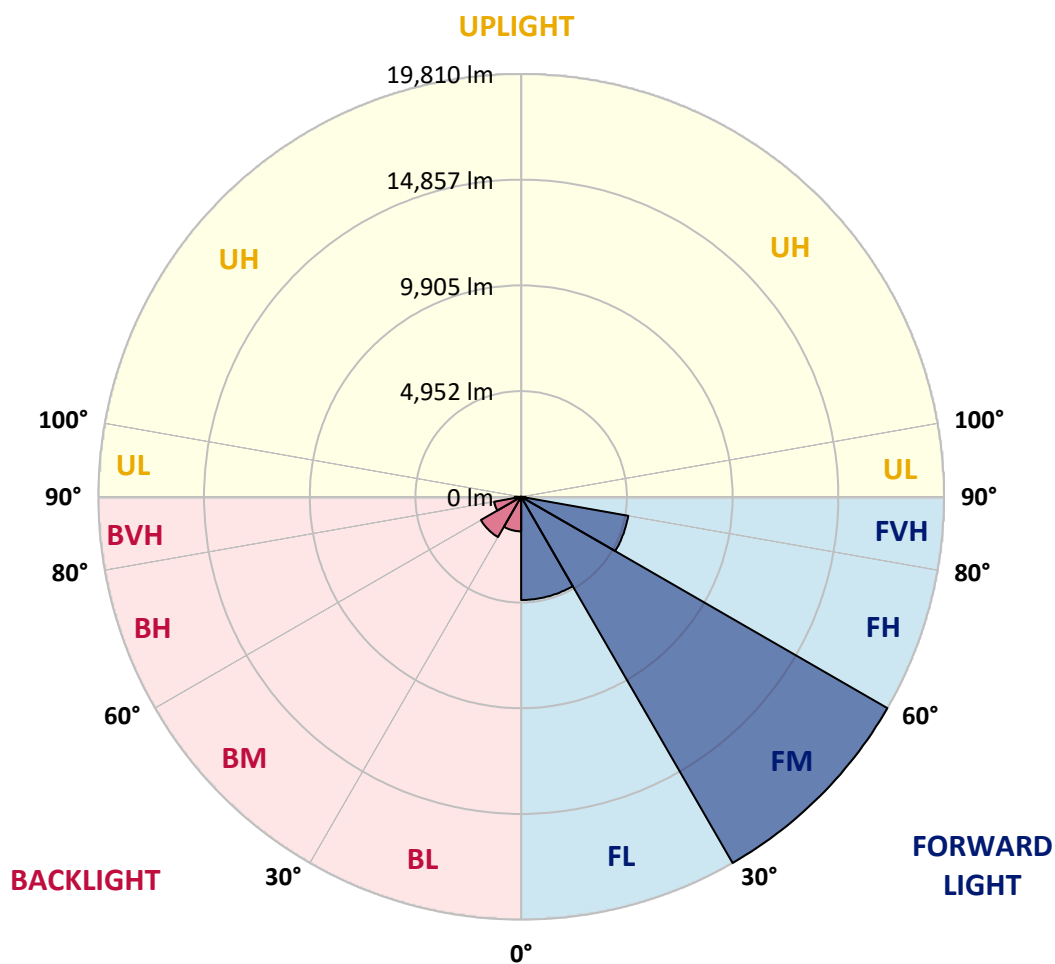
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4832.8	13.7			
FM	(30°-60°)	19809.8	56.1			
FH	(60°-80°)	5094.0	14.4			G3/7500
FVH	(80°-90°)	200.8	0.6			G2/225
BL	(0°-30°)	1619.1	4.6	B3/2500		
BM	(30°-60°)	2174.4	6.2	B2/2500		
BH	(60°-80°)	1285.4	3.6	B3/2500		G3/2500
BVH	(80°-90°)	308.2	0.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	9383.3	9383.3	9383.3	9383.3	9383.3	9383.3	9383.3	9383.3	9383.3	9383.3	9383.3
2.5°	10722.2	10635.9	10580.8	10532.7	10469.4	10334.8	10153.5	10038.6	9980.4	9782.5	9547.9
5°	11773.6	11697.1	11640.5	11575.6	11462.5	11251.3	10958.4	10725.7	10610.8	10214.9	9745.9
7.5°	11527.4	11559.0	11657.1	11828.5	11974.9	11946.5	11685.4	11389.3	11238.0	10687.4	9975.5
10°	10043.6	10098.5	10268.1	10669.0	11317.8	11983.1	12186.1	11981.5	11828.5	11154.9	10211.6
12.5°	9745.9	9744.2	9757.5	9864.0	10249.9	11186.4	12202.7	12409.0	12317.6	11600.6	10452.9
15°	9867.3	9870.6	9860.6	9905.6	10025.3	10396.2	11693.7	12573.7	12638.6	12049.6	10702.4
17.5°	10186.7	10178.4	10140.2	10140.2	10183.4	10328.1	11094.9	12420.6	12720.1	12447.3	10921.9
20°	10722.2	10684.0	10582.6	10489.4	10442.9	10521.0	10848.7	12068.0	12578.7	12795.0	11103.3
22.5°	11371.0	11341.1	11176.4	10976.8	10815.5	10813.8	10975.1	11760.2	12334.2	13122.6	11256.2
25°	12209.4	12161.1	11916.6	11597.3	11314.5	11206.4	11251.3	11745.3	12201.1	13478.6	11392.7
27.5°	13194.1	13105.9	12816.5	12355.8	11940.0	11722.0	11657.1	12016.5	12322.5	13919.4	11582.2
30°	14388.5	14287.0	13916.1	13315.5	12728.3	12370.8	12232.6	12497.2	12725.0	14456.6	11886.7
32.5°	15747.4	15601.0	15172.0	14509.8	13738.0	13192.5	12967.9	13132.5	13313.9	15103.7	12267.6
35°	17625.4	17450.8	16830.3	15917.1	15045.5	14295.3	13936.0	14055.7	14232.1	16068.4	12818.2
37.5°	18906.2	18828.1	18415.5	17557.2	16609.0	15745.8	15190.2	15260.0	15359.8	17274.4	13523.4
40°	18894.6	18926.2	18934.5	18942.9	18297.4	17470.8	16873.6	16800.4	16780.5	18598.5	14325.2
42.5°	17948.1	18077.9	18497.0	19347.1	19739.7	19360.4	18813.2	18601.8	18497.0	20158.8	15175.2
45°	16499.4	16569.1	17354.3	19014.4	20478.1	21231.7	20817.5	20152.1	19962.5	21592.7	15880.5
47.5°	15752.5	15828.9	16323.0	18132.7	20469.8	22743.7	22983.2	21715.8	21376.3	22840.2	16489.3
50°	13974.3	14134.0	14756.0	16599.1	19722.9	23439.1	25247.2	23578.8	22876.8	24054.5	17099.8
52.5°	10709.0	10955.2	11652.2	14077.4	17828.4	23094.6	27058.6	25837.6	24846.3	25312.0	17623.7
55°	6755.1	6938.1	7523.6	9942.1	14262.0	21303.3	27745.7	28281.2	27399.6	26503.0	18077.9
57.5°	3672.7	3754.2	3973.9	5489.1	9276.7	17342.6	26744.3	29671.7	29305.8	27514.3	18420.6
58°	3286.8	3341.8	3478.2	4757.3	8227.2	16259.8	26300.2	29676.8	29493.8	27662.4	18447.2
60°	2438.5	2410.3	2288.9	2714.6	4579.4	11233.0	23615.3	28489.2	29026.4	27843.7	18317.5
62.5°	2142.5	2074.3	1826.4	1798.2	2227.2	5174.8	18069.6	24403.8	25672.9	26809.1	17528.9
65°	2012.7	1939.6	1620.2	1517.1	1606.8	2189.0	10644.1	18302.4	19894.4	23671.9	15512.9
67.5°	1916.2	1821.5	1488.7	1347.3	1354.0	1447.1	4266.7	11527.4	13318.9	17973.0	12066.4
70°	1823.1	1720.0	1377.3	1214.3	1176.0	1144.4	1696.7	5770.3	7395.5	11352.7	7693.3
72.5°	1723.2	1621.9	1279.2	1109.5	1034.6	929.8	1107.8	2360.3	3296.9	5371.1	3489.8
75°	1578.6	1487.1	1181.0	1016.3	909.9	770.2	836.7	1232.6	1478.8	2139.2	1681.7
77.5°	1400.6	1325.8	1071.2	939.8	806.8	625.4	643.7	855.0	948.2	1224.2	999.7
80°	1006.4	1032.9	953.2	845.0	718.6	507.3	494.1	623.8	673.7	786.7	650.4
82.5°	706.9	721.8	788.5	690.3	593.9	399.3	364.3	439.1	469.0	517.4	350.9
85°	487.4	470.7	540.7	480.7	429.2	266.1	249.5	297.7	316.1	321.0	181.3
87.5°	292.7	292.7	312.7	257.9	231.2	138.1	134.7	169.7	181.3	172.9	99.8
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°	9383.3	9383.3	9383.3	9383.3	9383.3	9383.3	9383.3	9383.3	9383.3	9383.3	9383.3
2.5°	9408.2	9290.1	9038.9	8837.7	8583.2	8318.7	8170.6	8012.6	7904.5	7826.4	7951.2
5°	9479.8	9238.5	8719.6	8227.2	7683.2	7117.7	6688.6	6289.3	6011.6	5838.6	6001.6
7.5°	9592.9	9221.9	8395.2	7553.5	6577.1	5635.6	4794.0	4266.7	3958.9	3807.5	3902.3
10°	9722.6	9195.3	8014.2	6640.3	5243.1	4057.1	3428.2	3215.4	3145.5	3117.1	3130.5
12.5°	9830.7	9138.8	7546.9	5535.8	3937.2	3203.7	3022.4	3017.4	3032.4	3035.7	3040.6
15°	9907.2	9055.6	6853.2	4384.7	3148.9	2919.3	2909.2	2939.2	2967.5	2979.2	2985.8
17.5°	9958.8	8884.2	6069.8	3466.6	2821.2	2781.2	2804.4	2842.7	2872.8	2881.0	2887.7
20°	9953.8	8633.1	5136.6	2891.0	2643.2	2643.2	2683.1	2713.0	2714.6	2704.7	2709.7
22.5°	9902.2	8288.7	4231.7	2585.0	2485.1	2513.4	2553.3	2525.1	2408.6	2332.1	2337.0
25°	9815.8	7877.9	3456.5	2390.3	2338.7	2388.6	2377.1	2164.1	1997.7	1922.9	1922.9
27.5°	9739.3	7392.2	2861.1	2220.7	2192.4	2253.9	2047.6	1854.6	1784.9	1749.9	1738.2
30°	9684.3	6868.1	2463.5	2057.7	2054.3	2009.4	1776.5	1723.2	1711.6	1683.3	1673.5
32.5°	9697.7	6337.6	2209.0	1914.5	1926.2	1720.0	1646.7	1658.4	1648.4	1618.4	1605.2
35°	9807.4	5833.6	2042.7	1784.9	1749.9	1553.6	1570.3	1591.9	1588.5	1547.0	1533.7
37.5°	10003.7	5356.1	1932.9	1676.7	1527.0	1470.4	1497.1	1530.2	1522.0	1493.7	1483.7
40°	10209.9	4907.1	1843.1	1591.9	1395.6	1414.0	1437.2	1455.5	1463.7	1472.2	1465.5
42.5°	10411.2	4438.0	1733.3	1505.4	1340.7	1360.8	1370.6	1388.9	1433.8	1465.5	1463.7
45°	10531.1	3997.1	1620.2	1382.2	1297.5	1309.2	1302.5	1339.1	1393.9	1445.5	1447.1
47.5°	10664.0	3654.5	1530.2	1269.1	1255.8	1264.2	1244.3	1280.8	1330.8	1393.9	1400.6
50°	10825.4	3449.9	1458.8	1179.4	1199.3	1199.3	1194.3	1227.6	1297.5	1370.6	1384.0
52.5°	11008.4	3410.0	1398.9	1114.5	1142.8	1141.1	1146.1	1196.0	1272.6	1344.0	1355.7
55°	11231.3	3518.1	1334.0	1066.3	1087.9	1094.6	1111.1	1167.8	1232.6	1314.1	1319.1
57.5°	11490.8	3737.6	1282.4	1028.0	1038.0	1059.6	1086.2	1137.7	1207.7	1297.5	1302.5
58°	11534.1	3784.2	1274.2	1024.7	1028.0	1052.9	1082.9	1132.8	1202.6	1300.7	1305.7
60°	11535.7	3938.9	1255.8	1009.7	989.8	1031.3	1064.6	1114.5	1194.3	1312.4	1324.1
62.5°	11126.5	3937.2	1242.6	988.0	949.8	1001.4	1039.6	1097.8	1186.0	1340.7	1364.0
65°	9797.5	3578.0	1179.4	954.8	918.3	974.7	1018.0	1086.2	1209.3	1463.7	1478.8
67.5°	7663.3	2932.6	1061.2	908.3	876.6	948.2	1004.7	1084.5	1234.2	1492.1	1502.1
70°	5066.7	2194.0	931.6	855.0	833.3	916.5	1011.3	1141.1	1206.0	1432.2	1405.6
72.5°	2629.9	1540.3	826.8	788.5	783.5	888.3	1107.8	1134.4	1177.7	1347.3	1314.1
75°	1380.6	1069.5	735.2	715.2	723.7	881.6	1307.4	1104.5	1141.1	1289.1	1352.3
77.5°	845.0	863.2	657.0	648.8	665.4	861.6	1305.7	1066.3	1087.9	1186.0	1255.8
80°	565.5	700.3	597.2	598.8	610.4	788.5	1172.7	1006.4	1023.0	1121.1	1192.7
82.5°	357.6	414.2	542.3	570.6	555.6	650.4	996.3	916.5	939.8	1282.4	1355.7
85°	181.3	259.5	470.7	548.9	500.7	455.7	808.4	803.4	815.1	924.9	966.4
87.5°	83.1	143.0	367.6	479.1	377.6	284.4	587.2	595.5	642.1	657.0	657.0
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)