

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: P192696

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192696
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-08-LED-E1-AFL-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31186.9 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

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

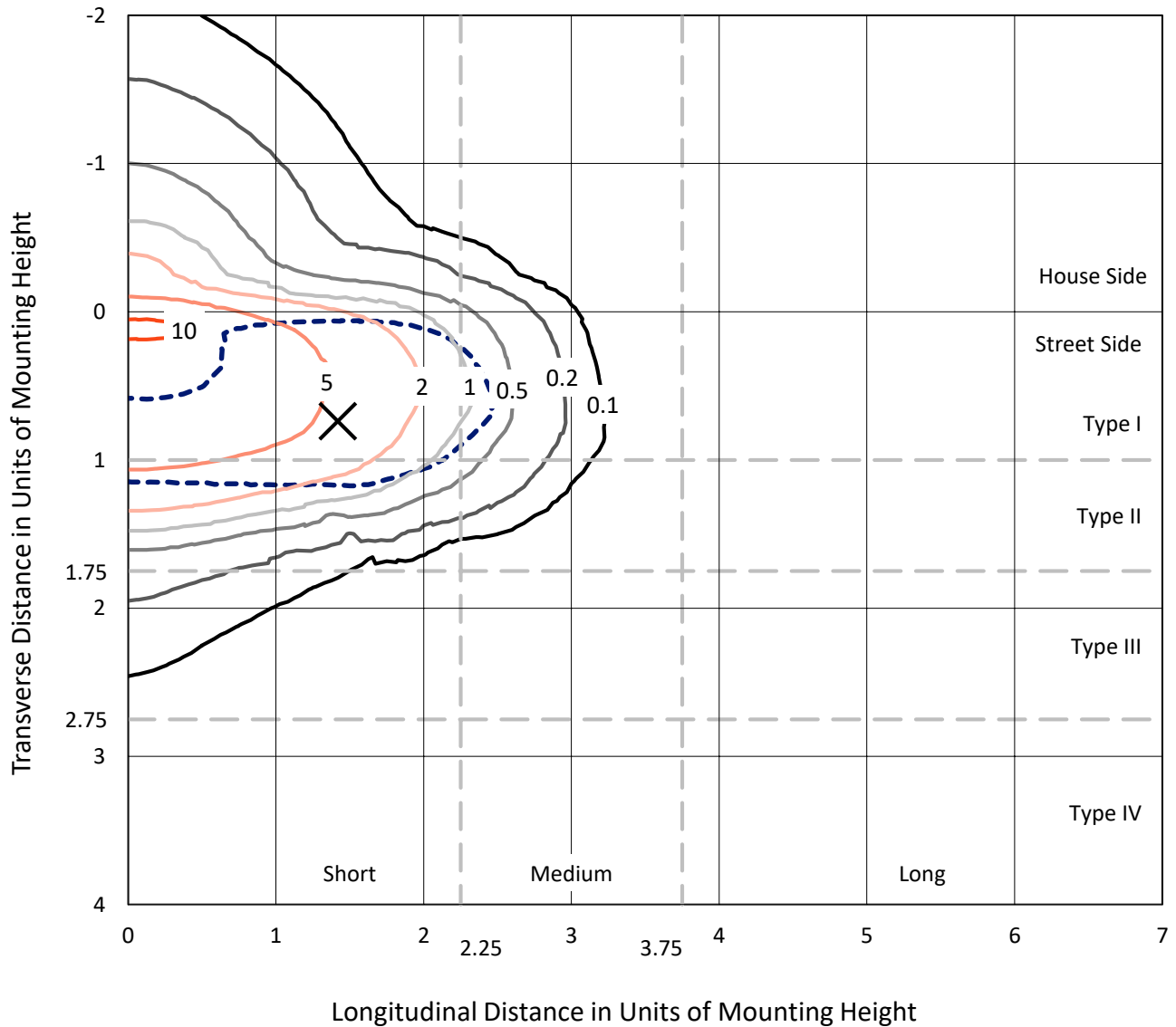


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

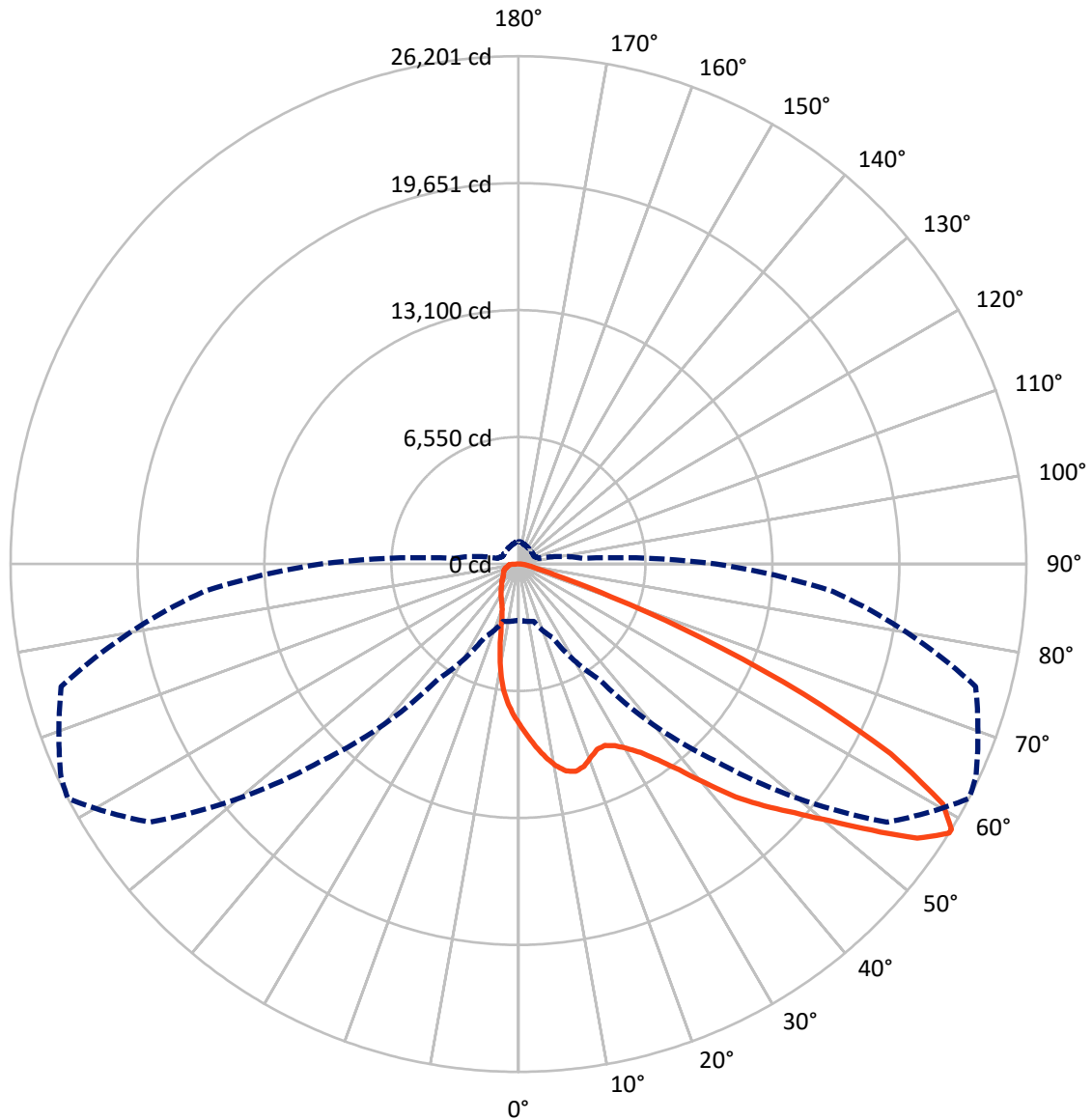


Based on 30 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4756.1	0.0	4756.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	26430.8	0.0	26430.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	31186.9	0.0	31186.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	740.9	2.4
10°-20°	1893.8	6.1
20°-30°	3061.5	9.8
30°-40°	4860.1	15.6
40°-50°	7111.3	22.8
50°-60°	7437.8	23.8
60°-70°	4394.3	14.1
70°-80°	1237.9	4.0
80°-90°	449.4	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°	31186.9	100.0
0°-180°	31186.9	100.0

Coefficient of Utilization



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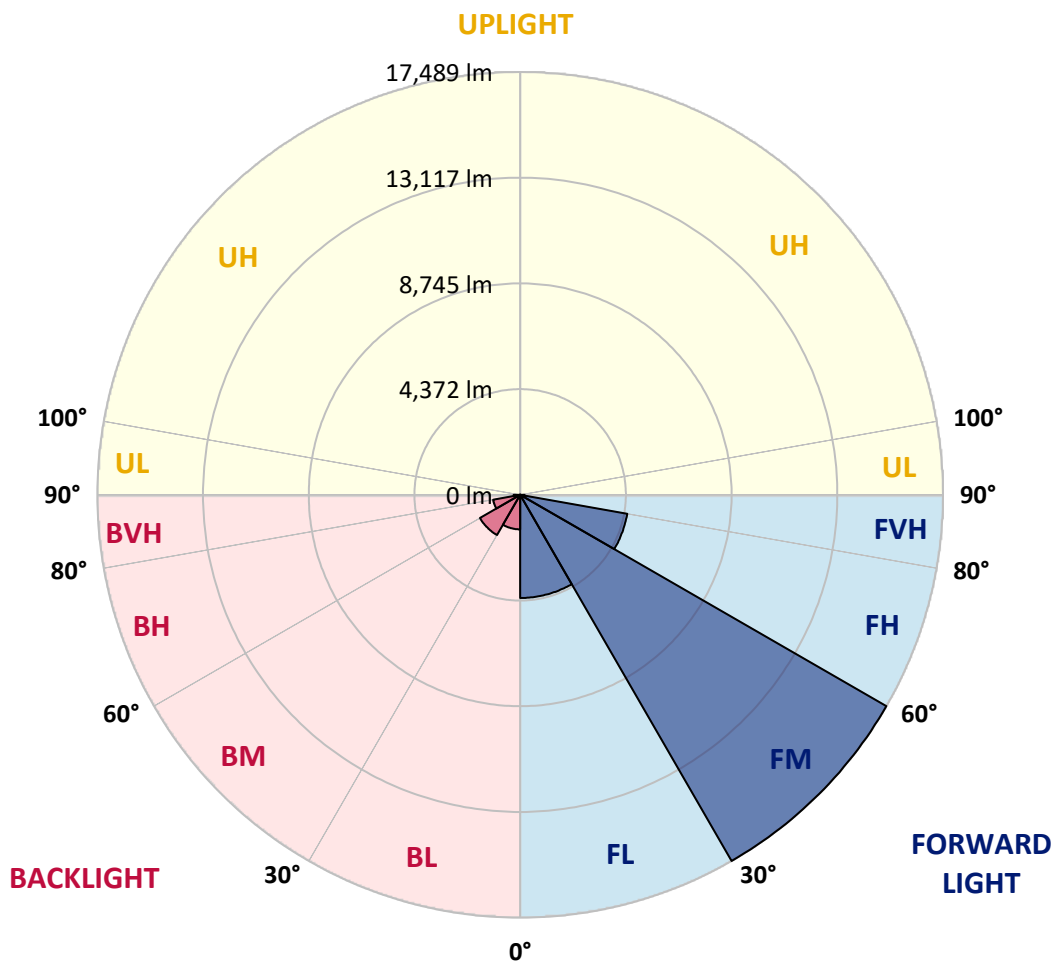
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4266.8	13.7			
FM (30°-60°)	17489.5	56.1			
FH (60°-80°)	4497.3	14.4			G2/5000
FVH (80°-90°)	177.3	0.6			G2/225
BL (0°-30°)	1429.5	4.6	B3/2500		
BM (30°-60°)	1919.7	6.2	B2/2500		
BH (60°-80°)	1134.9	3.6	B3/2500		G3/2500
BVH (80°-90°)	272.1	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°	8284.1	8284.1	8284.1	8284.1	8284.1	8284.1	8284.1	8284.1	8284.1	8284.1	8284.1
2.5°	9466.3	9390.0	9341.5	9298.9	9243.2	9124.2	8964.1	8862.8	8811.4	8636.6	8429.6
5°	10394.5	10326.9	10277.0	10219.8	10119.9	9933.5	9674.9	9469.3	9368.0	9018.5	8604.2
7.5°	10177.2	10205.1	10291.6	10443.0	10572.3	10547.3	10316.7	10055.2	9921.7	9435.5	8807.0
10°	8867.2	8915.7	9065.5	9419.4	9992.1	10579.6	10758.8	10578.1	10443.0	9848.2	9015.5
12.5°	8604.2	8602.8	8614.6	8708.6	9049.3	9876.1	10773.4	10955.5	10874.7	10241.8	9228.5
15°	8711.6	8714.5	8705.7	8745.3	8851.1	9178.6	10324.0	11100.8	11158.2	10638.2	9448.7
17.5°	8993.4	8986.1	8952.3	8952.3	8990.5	9118.3	9795.3	10965.8	11230.1	10989.3	9642.5
20°	9466.3	9432.6	9343.0	9260.9	9219.7	9288.6	9578.0	10654.4	11105.3	11296.2	9802.6
22.5°	10039.1	10012.7	9867.3	9691.1	9548.6	9547.2	9689.5	10382.8	10889.5	11585.6	9937.7
25°	10779.3	10736.7	10520.8	10238.8	9989.1	9893.8	9933.5	10369.6	10772.0	11899.8	10058.2
27.5°	11648.6	11570.9	11315.3	10908.6	10541.4	10349.0	10291.6	10609.0	10879.2	12288.9	10225.6
30°	12703.1	12613.6	12285.9	11755.9	11237.5	10921.8	10799.8	11033.3	11234.6	12763.3	10494.4
32.5°	13902.9	13773.7	13394.7	12810.3	12128.9	11647.1	11448.9	11594.4	11754.4	13334.5	10830.7
35°	15560.9	15406.7	14858.9	14052.7	13283.2	12620.9	12303.6	12409.3	12565.1	14186.3	11316.7
37.5°	16691.7	16622.7	16258.6	15500.7	14663.6	13901.5	13410.9	13472.6	13560.7	15251.1	11939.5
40°	16681.4	16709.3	16716.6	16724.0	16154.2	15424.3	14897.2	14832.5	14814.9	16420.0	12647.3
42.5°	15845.9	15960.4	16330.4	17080.9	17427.5	17092.6	16609.5	16423.0	16330.4	17797.6	13397.7
45°	14566.7	14628.4	15321.5	16787.1	18079.5	18744.7	18379.1	17791.7	17624.3	19063.4	14020.3
47.5°	13907.3	13975.0	14411.1	16008.8	18072.1	20079.6	20291.2	19172.2	18872.6	20164.9	14557.9
50°	12337.4	12478.4	13027.6	14654.8	17412.7	20693.6	22289.9	20816.9	20197.2	21236.9	15096.9
52.5°	9454.6	9671.9	10287.3	12428.5	15740.1	20389.5	23889.2	22811.2	21936.0	22347.2	15559.5
55°	5963.8	6125.4	6642.3	8777.7	12591.5	18807.9	24495.7	24968.6	24190.2	23398.6	15960.4
57.5°	3242.6	3314.6	3508.5	4846.3	8190.2	15311.3	23611.6	26196.3	25873.2	24291.5	16262.9
58°	2901.9	2950.3	3070.7	4200.2	7263.5	14355.2	23219.4	26200.7	26039.1	24422.2	16286.4
60°	2153.0	2128.0	2020.7	2396.7	4042.9	9917.3	20849.2	25152.1	25626.4	24582.4	16171.9
62.5°	1891.5	1831.3	1612.4	1587.5	1966.4	4568.6	15953.1	21545.4	22665.9	23668.9	15475.7
65°	1777.0	1712.3	1430.4	1339.3	1418.6	1932.7	9397.4	16158.7	17564.1	20899.1	13695.8
67.5°	1691.8	1608.1	1314.4	1189.5	1195.4	1277.7	3766.8	10177.2	11758.8	15867.8	10653.0
70°	1609.5	1518.4	1215.9	1072.1	1038.3	1010.3	1498.0	5094.4	6529.3	10023.0	6792.1
72.5°	1521.4	1431.9	1129.3	979.5	913.4	821.0	978.1	2083.9	2910.6	4742.0	3081.0
75°	1393.7	1312.9	1042.7	897.3	803.3	679.9	738.7	1088.2	1305.5	1888.5	1484.8
77.5°	1236.5	1170.5	945.7	829.8	712.3	552.2	568.3	754.9	837.0	1080.9	882.6
80°	888.5	912.0	841.6	746.0	634.5	448.0	436.2	550.6	594.8	694.7	574.1
82.5°	624.1	637.3	696.1	609.4	524.2	352.5	321.7	387.7	414.1	456.7	309.9
85°	430.3	415.6	477.3	424.4	378.9	235.0	220.2	262.9	279.0	283.4	160.1
87.5°	258.5	258.5	276.1	227.6	204.1	122.0	119.0	149.8	160.1	152.8	88.1
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°	8284.1	8284.1	8284.1	8284.1	8284.1	8284.1	8284.1	8284.1	8284.1	8284.1	8284.1
2.5°	8306.2	8202.0	7980.2	7802.5	7577.7	7344.3	7213.7	7074.1	6978.6	6909.5	7019.8
5°	8369.4	8156.4	7698.2	7263.5	6783.4	6284.0	5905.1	5552.7	5307.4	5154.7	5298.6
7.5°	8469.2	8141.8	7411.8	6668.7	5806.7	4975.4	4232.3	3766.8	3495.2	3361.6	3445.3
10°	8583.7	8118.2	7075.5	5862.6	4628.9	3581.8	3026.7	2838.8	2777.1	2752.1	2763.8
12.5°	8679.2	8068.2	6662.8	4887.3	3476.1	2828.5	2668.4	2664.0	2677.2	2680.1	2684.5
15°	8746.8	7994.8	6050.4	3871.2	2780.0	2577.3	2568.5	2594.9	2619.9	2630.2	2636.1
17.5°	8792.3	7843.6	5358.8	3060.5	2490.7	2455.5	2476.1	2509.8	2536.2	2543.5	2549.4
20°	8787.9	7621.8	4535.0	2552.4	2333.6	2333.6	2368.8	2395.2	2396.7	2387.9	2392.3
22.5°	8742.4	7317.8	3736.0	2282.1	2194.0	2219.0	2254.2	2229.3	2126.5	2058.9	2063.4
25°	8666.0	6955.1	3051.7	2110.4	2064.8	2108.8	2098.6	1910.6	1763.8	1697.7	1697.7
27.5°	8598.4	6526.3	2526.0	1960.5	1935.5	1989.9	1807.8	1637.5	1575.7	1544.9	1534.6
30°	8550.0	6063.7	2175.0	1816.7	1813.7	1774.1	1568.4	1521.4	1511.2	1486.2	1477.4
32.5°	8561.8	5595.2	1950.3	1690.4	1700.6	1518.4	1453.9	1464.2	1455.4	1428.9	1417.2
35°	8658.7	5150.3	1803.5	1575.7	1544.9	1371.6	1386.3	1405.4	1402.5	1365.7	1354.0
37.5°	8832.0	4728.7	1706.5	1480.4	1348.1	1298.2	1321.7	1351.1	1343.8	1318.8	1309.9
40°	9014.1	4332.2	1627.2	1405.4	1232.1	1248.3	1268.8	1285.0	1292.3	1299.6	1293.8
42.5°	9191.8	3918.1	1530.2	1329.0	1183.8	1201.3	1210.0	1226.2	1265.9	1293.8	1292.3
45°	9297.5	3529.0	1430.4	1220.4	1145.5	1155.8	1149.9	1182.1	1230.7	1276.1	1277.7
47.5°	9415.0	3226.4	1351.1	1120.6	1108.8	1116.1	1098.5	1130.9	1174.9	1230.7	1236.5
50°	9557.5	3045.8	1287.9	1041.2	1058.8	1058.8	1054.5	1083.9	1145.5	1210.0	1221.8
52.5°	9718.9	3010.5	1235.0	984.0	1008.9	1007.5	1011.8	1055.9	1123.4	1186.5	1196.9
55°	9915.8	3106.0	1177.9	941.4	960.4	966.3	981.0	1031.0	1088.2	1160.2	1164.6
57.5°	10144.8	3299.8	1132.3	907.6	916.3	935.5	959.0	1004.5	1066.2	1145.5	1149.9
58°	10183.1	3341.0	1125.0	904.6	907.6	929.6	956.0	1000.0	1061.8	1148.5	1152.8
60°	10184.5	3477.6	1108.8	891.4	873.7	910.4	939.8	984.0	1054.5	1158.7	1169.0
62.5°	9823.3	3476.1	1097.1	872.3	838.6	884.1	917.9	969.2	1047.1	1183.8	1204.2
65°	8649.8	3158.9	1041.2	842.9	810.6	860.5	898.7	959.0	1067.7	1292.3	1305.5
67.5°	6765.7	2589.1	936.9	801.9	773.9	837.0	886.9	957.5	1089.7	1317.3	1326.1
70°	4473.3	1937.0	822.4	754.9	735.8	809.2	892.8	1007.5	1064.7	1264.4	1240.9
72.5°	2321.8	1359.8	729.9	696.1	691.7	784.3	978.1	1001.6	1039.7	1189.5	1160.2
75°	1218.9	944.3	649.1	631.5	638.8	778.4	1154.4	975.1	1007.5	1138.2	1193.9
77.5°	746.0	762.2	580.0	572.7	587.4	760.7	1152.8	941.4	960.4	1047.1	1108.8
80°	499.4	618.3	527.1	528.7	538.9	696.1	1035.3	888.5	903.1	989.8	1052.9
82.5°	315.8	365.7	478.8	503.6	490.5	574.1	879.6	809.2	829.8	1132.3	1196.9
85°	160.1	229.1	415.6	484.7	442.1	402.4	713.7	709.3	719.6	816.5	853.2
87.5°	73.4	126.3	324.5	423.0	333.3	251.1	518.4	525.7	566.8	580.0	580.0
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)