

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: P191382

Luminaire Tested: **GLEON-AF-04-LED-E1-T2-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191382
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-T2-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26441.2 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 258
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

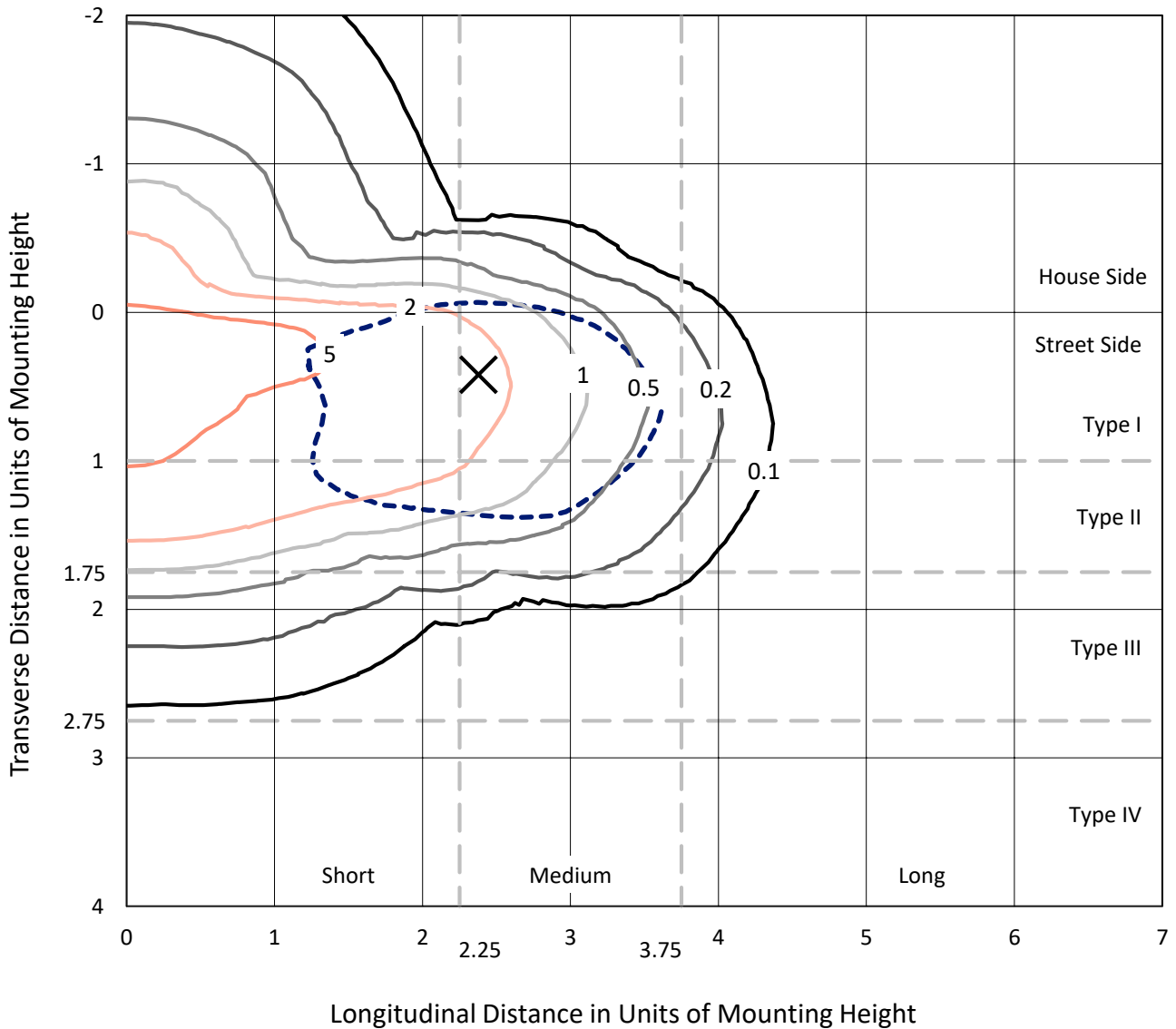


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

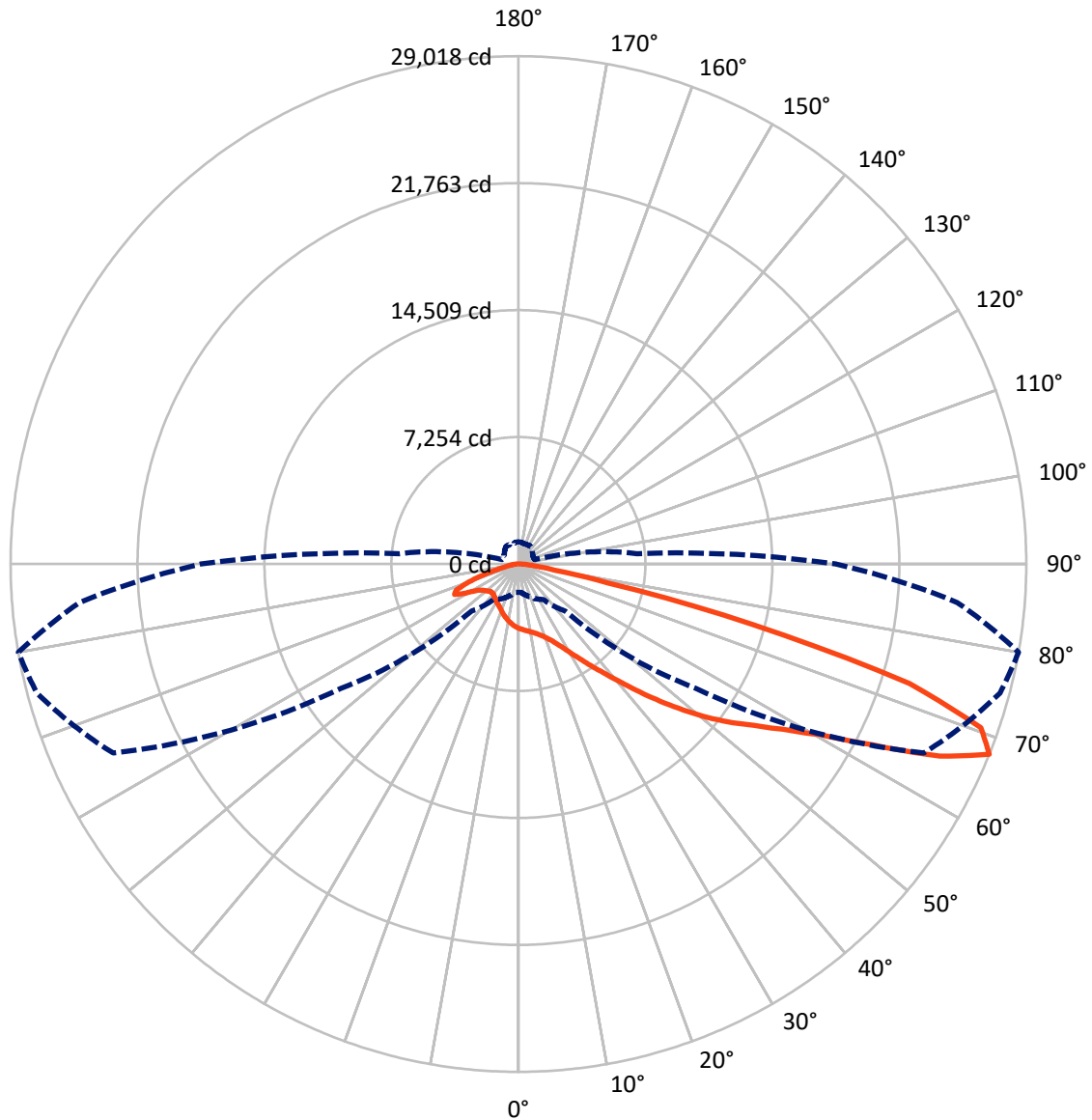


Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4869.5	0.0	4869.5
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	21571.8	0.0	21571.8
	% Fixture	81.6	0.0	81.6
Total	Lumens	26441.2	0.0	26441.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.9	1.3
10°-20°	976.2	3.7
20°-30°	1615.8	6.1
30°-40°	2642.9	10.0
40°-50°	4267.3	16.1
50°-60°	6160.8	23.3
60°-70°	6798.8	25.7
70°-80°	3133.8	11.9
80°-90°	506.9	1.9
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°	26441.2	100.0
0°-180°	26441.2	100.0



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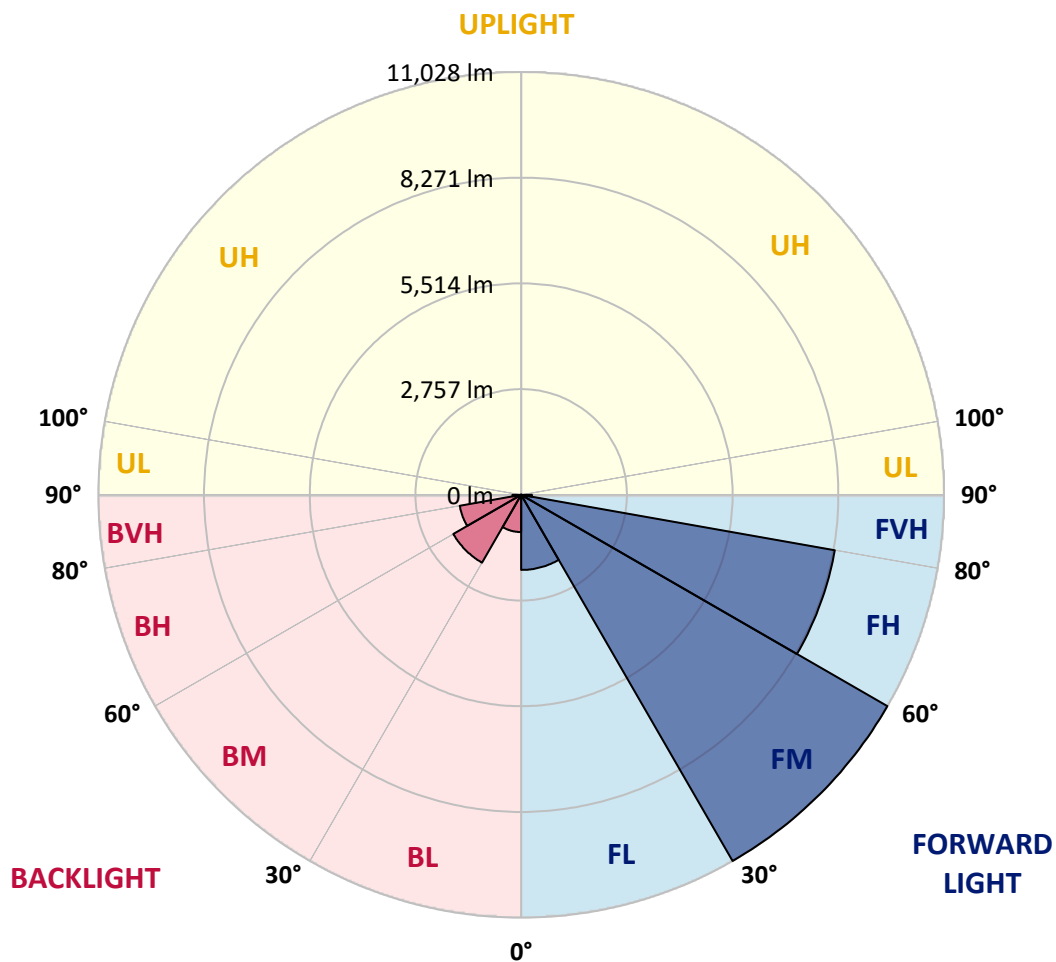
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1959.2	7.4			
FM	(30°-60°)	11028.0	41.7			
FH	(60°-80°)	8305.9	31.4			G4/12000
FVH	(80°-90°)	278.7	1.1			G3/500
BL	(0°-30°)	971.5	3.7	B2/1000		
BM	(30°-60°)	2043.1	7.7	B2/2500		
BH	(60°-80°)	1626.7	6.2	B3/2500		G3/2500
BVH	(80°-90°)	228.2	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	3673.4	3673.4	3673.4	3673.4	3673.4	3673.4	3673.4	3673.4	3673.4	3673.4	3673.4
2.5°	4018.5	3995.0	3998.9	3992.4	3972.8	3939.0	3902.6	3836.2	3767.2	3730.7	3702.1
5°	4354.3	4347.7	4338.6	4317.8	4268.4	4198.1	4110.8	3993.7	3867.4	3801.0	3737.2
7.5°	4605.5	4601.5	4589.9	4576.9	4528.7	4444.1	4312.6	4146.0	3962.4	3871.4	3772.4
10°	4626.3	4632.8	4641.9	4677.0	4683.6	4638.1	4504.0	4302.2	4061.3	3944.2	3818.0
12.5°	4449.3	4463.6	4498.7	4588.5	4683.6	4739.5	4670.6	4466.2	4177.2	4035.3	3875.2
15°	4215.0	4222.7	4265.7	4389.4	4559.9	4733.1	4798.2	4647.2	4326.9	4152.5	3961.2
17.5°	4114.7	4118.6	4148.6	4230.6	4389.4	4636.7	4869.8	4843.7	4510.5	4298.2	4066.5
20°	4064.0	4073.1	4116.0	4196.8	4297.0	4513.1	4880.2	5055.9	4729.1	4480.5	4199.3
22.5°	4208.4	4204.5	4220.2	4260.5	4345.2	4475.3	4872.3	5274.5	5007.8	4714.9	4372.5
25°	4545.6	4559.9	4532.6	4487.1	4514.4	4605.5	4913.9	5511.5	5356.6	5015.5	4599.0
27.5°	5026.0	5011.6	4971.2	4864.5	4808.6	4847.6	5051.9	5766.6	5790.0	5411.2	4898.4
30°	5505.0	5493.2	5454.2	5324.0	5209.5	5176.9	5320.2	6059.6	6306.8	5886.4	5265.4
32.5°	6002.3	5989.2	5952.8	5822.6	5684.6	5609.1	5701.5	6397.9	6916.1	6453.9	5697.6
35°	6615.3	6590.6	6513.8	6332.9	6197.4	6138.9	6181.9	6823.6	7618.9	7125.7	6222.2
37.5°	7192.0	7229.8	7151.7	6901.7	6726.0	6705.1	6753.3	7343.0	8376.5	7876.7	6824.9
40°	7771.3	7777.8	7707.5	7503.1	7322.2	7288.3	7409.4	7973.1	9270.9	8774.9	7557.8
42.5°	8370.1	8383.1	8264.6	8075.9	7943.1	7949.7	8087.6	8711.1	10296.6	9833.2	8401.3
45°	9079.5	9099.0	8968.8	8721.6	8600.5	8843.9	8786.6	9539.0	11421.3	11036.0	9369.8
47.5°	9821.5	9851.4	9752.5	9520.8	9369.8	9704.3	9485.6	10456.7	12631.9	12326.0	10433.3
50°	10226.3	10269.3	10365.6	10348.7	10316.2	10260.2	10265.4	11440.8	13880.2	13669.4	11526.7
52.5°	10009.0	10007.6	10359.1	10786.1	11241.6	11275.5	11215.6	12478.3	15046.6	14982.9	12556.4
55°	9014.4	9082.1	9614.5	10441.1	11685.6	12462.7	12639.7	13666.7	16192.1	16266.4	13601.7
57.5°	7358.6	7414.6	8133.2	9285.2	11086.7	13168.2	14665.2	15394.2	17473.0	17819.3	14993.2
60°	4990.8	5058.5	5820.0	7203.7	9475.2	12775.1	16593.1	18476.6	19006.4	19794.0	16945.8
62.5°	2932.8	2994.0	3614.9	4544.4	6671.3	10948.7	17439.2	22862.1	21442.0	22773.6	19924.1
65°	2019.0	2060.6	2362.6	2828.7	3833.6	7374.2	16389.9	25890.0	25189.6	26465.3	23377.6
67.5°	1624.5	1619.3	1858.9	2176.4	2468.1	3802.3	12393.7	25547.6	28485.6	29017.9	25170.1
70°	1338.1	1333.0	1495.7	1758.7	1972.1	2141.3	6750.8	21559.1	27813.8	28030.0	23519.5
72.5°	1119.5	1124.7	1228.9	1424.0	1618.0	1612.8	2966.7	15166.4	21880.6	23375.0	18748.6
75°	945.0	947.7	1016.6	1154.6	1313.5	1299.1	1608.9	8216.4	12719.1	13759.2	10393.0
77.5°	804.4	807.1	851.3	928.1	1041.4	1036.1	1174.1	3549.7	5305.8	5240.7	3555.0
80°	717.3	717.3	738.1	752.4	814.9	791.5	870.8	1705.3	2242.8	2071.1	1418.8
82.5°	562.3	565.0	692.5	687.3	641.8	611.8	611.8	1004.9	1188.5	1098.6	830.5
85°	316.3	315.0	446.5	538.9	565.0	430.9	427.0	562.3	646.9	570.2	402.2
87.5°	135.3	138.0	206.9	239.5	320.2	268.1	264.2	290.3	329.3	285.1	186.2
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°	3673.4	3673.4	3673.4	3673.4	3673.4	3673.4	3673.4	3673.4	3673.4	3673.4	3673.4
2.5°	3674.7	3640.9	3566.7	3474.2	3391.0	3336.4	3286.8	3215.2	3219.1	3169.7	3133.2
5°	3672.2	3601.9	3430.1	3225.7	3029.1	2887.2	2780.5	2684.1	2660.7	2615.2	2587.9
7.5°	3674.7	3560.2	3271.2	2944.5	2701.1	2521.5	2430.3	2379.6	2367.8	2352.2	2353.5
10°	3683.9	3522.4	3096.8	2681.6	2426.4	2308.0	2285.8	2301.4	2319.6	2324.9	2326.2
12.5°	3704.7	3488.6	2905.5	2447.2	2254.6	2218.2	2255.9	2309.2	2344.4	2361.3	2360.0
15°	3751.6	3462.6	2721.9	2263.7	2159.6	2179.1	2249.4	2324.9	2375.6	2399.0	2400.4
17.5°	3802.3	3424.8	2533.1	2123.1	2089.3	2138.7	2225.9	2314.4	2376.9	2403.0	2408.2
20°	3868.7	3378.0	2335.3	2017.7	2022.9	2078.8	2160.9	2249.4	2318.4	2340.5	2350.9
22.5°	3956.0	3327.1	2162.1	1931.7	1947.4	1990.4	2054.1	2130.9	2190.8	2201.2	2210.3
25°	4073.1	3272.5	2024.2	1853.7	1860.1	1884.9	1927.9	1973.4	2015.1	2003.3	2012.5
27.5°	4230.6	3225.7	1921.3	1782.1	1770.3	1775.5	1797.6	1812.0	1834.2	1801.6	1805.5
30°	4415.5	3174.9	1841.9	1719.6	1687.1	1677.9	1683.2	1690.9	1707.8	1663.6	1657.1
32.5°	4630.2	3113.8	1767.8	1664.9	1619.3	1601.1	1603.7	1624.5	1689.6	1662.3	1648.0
35°	4880.2	3044.7	1689.6	1605.0	1573.8	1547.7	1545.2	1610.2	1804.2	1787.3	1774.2
37.5°	5173.1	2975.8	1611.6	1537.3	1540.0	1511.3	1502.2	1576.4	1826.3	1759.9	1750.8
40°	5545.3	2939.2	1545.2	1465.8	1498.3	1494.3	1476.1	1513.9	1680.5	1559.5	1543.8
42.5°	6006.2	2944.5	1495.7	1389.0	1448.8	1490.4	1461.8	1463.1	1523.0	1431.9	1417.6
45°	6575.0	3005.6	1460.6	1327.8	1392.8	1486.6	1456.6	1435.8	1441.0	1392.8	1385.1
47.5°	7238.9	3132.0	1435.8	1276.9	1339.5	1472.2	1455.4	1427.9	1416.3	1390.2	1383.7
50°	7977.0	3315.5	1417.6	1228.9	1291.3	1448.8	1456.6	1420.2	1407.2	1396.7	1392.8
52.5°	8702.0	3525.1	1390.2	1187.1	1253.5	1420.2	1460.6	1412.4	1398.1	1390.2	1386.3
55°	9510.4	3786.7	1348.6	1152.0	1222.3	1383.7	1460.6	1400.6	1385.1	1386.3	1385.1
57.5°	10602.5	4209.7	1299.1	1122.1	1184.6	1339.5	1435.8	1387.6	1368.1	1369.4	1370.8
60°	12309.1	4955.7	1239.2	1092.1	1137.7	1287.4	1402.0	1359.0	1339.5	1344.7	1346.0
62.5°	14818.8	6050.4	1161.2	1047.9	1088.2	1231.4	1355.1	1322.6	1303.0	1316.0	1316.0
65°	17427.4	7016.3	1064.8	992.0	1036.1	1170.3	1296.5	1276.9	1257.5	1287.4	1286.1
67.5°	18129.0	6800.2	968.5	930.7	984.1	1102.5	1226.2	1215.8	1205.3	1257.5	1254.9
70°	16104.9	5459.4	879.9	868.3	926.8	1029.7	1150.7	1150.7	1144.2	1183.2	1174.1
72.5°	12270.0	3871.4	795.3	801.9	861.7	950.2	1068.7	1077.8	1067.4	1087.0	1079.1
75°	6568.5	2215.5	710.7	729.0	781.0	869.5	977.6	986.7	980.2	978.9	982.7
77.5°	2183.0	1083.0	622.3	650.9	696.4	786.2	882.6	896.9	881.3	878.6	877.4
80°	972.4	680.8	524.6	562.3	602.7	691.2	782.4	794.0	777.1	800.6	770.6
82.5°	624.8	447.7	420.4	462.1	501.1	596.2	682.1	684.7	669.1	777.1	662.6
85°	303.3	277.2	316.3	354.0	387.9	468.6	565.0	566.2	527.2	480.4	463.4
87.5°	151.0	161.4	210.8	244.7	261.7	321.5	411.3	403.6	386.6	351.5	324.2
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)