

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: P192285

Luminaire Tested: **GLEON-AF-07-LED-E1-T3R-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-T3R-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34780 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 295
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

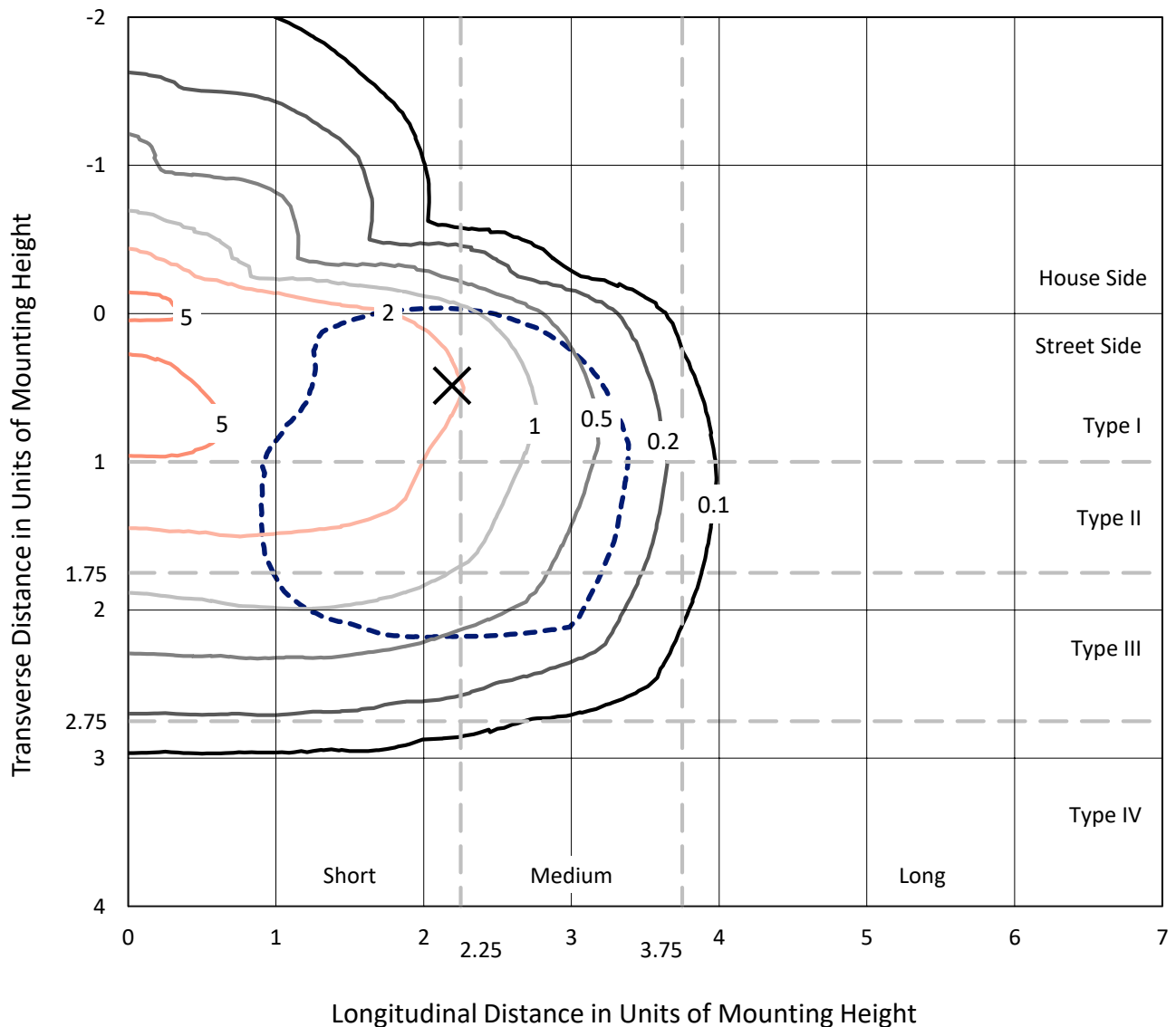


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Iso-Footcandle Lines of Horizontal Illumination

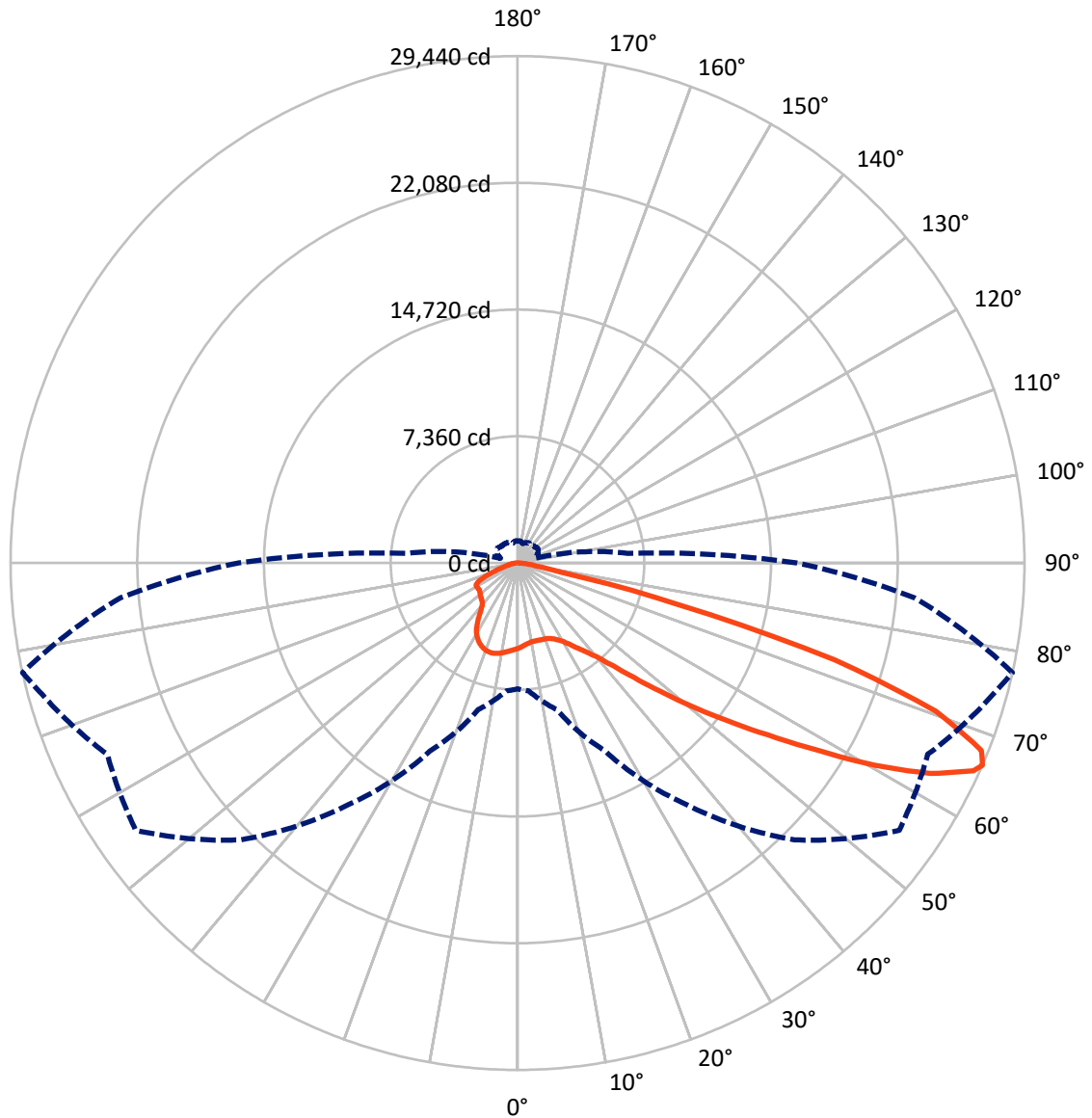
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5941.9	0.0	5941.9
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	28838.1	0.0	28838.1
	% Fixture	82.9	0.0	82.9
Total	Lumens	34780.0	0.0	34780.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.8	1.3
10°-20°	1249.2	3.6
20°-30°	2132.0	6.1
30°-40°	3413.0	9.8
40°-50°	5272.7	15.2
50°-60°	7478.5	21.5
60°-70°	10004.2	28.8
70°-80°	4344.6	12.5
80°-90°	443.0	1.3
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°	34780.0	100.0
0°-180°	34780.0	100.0



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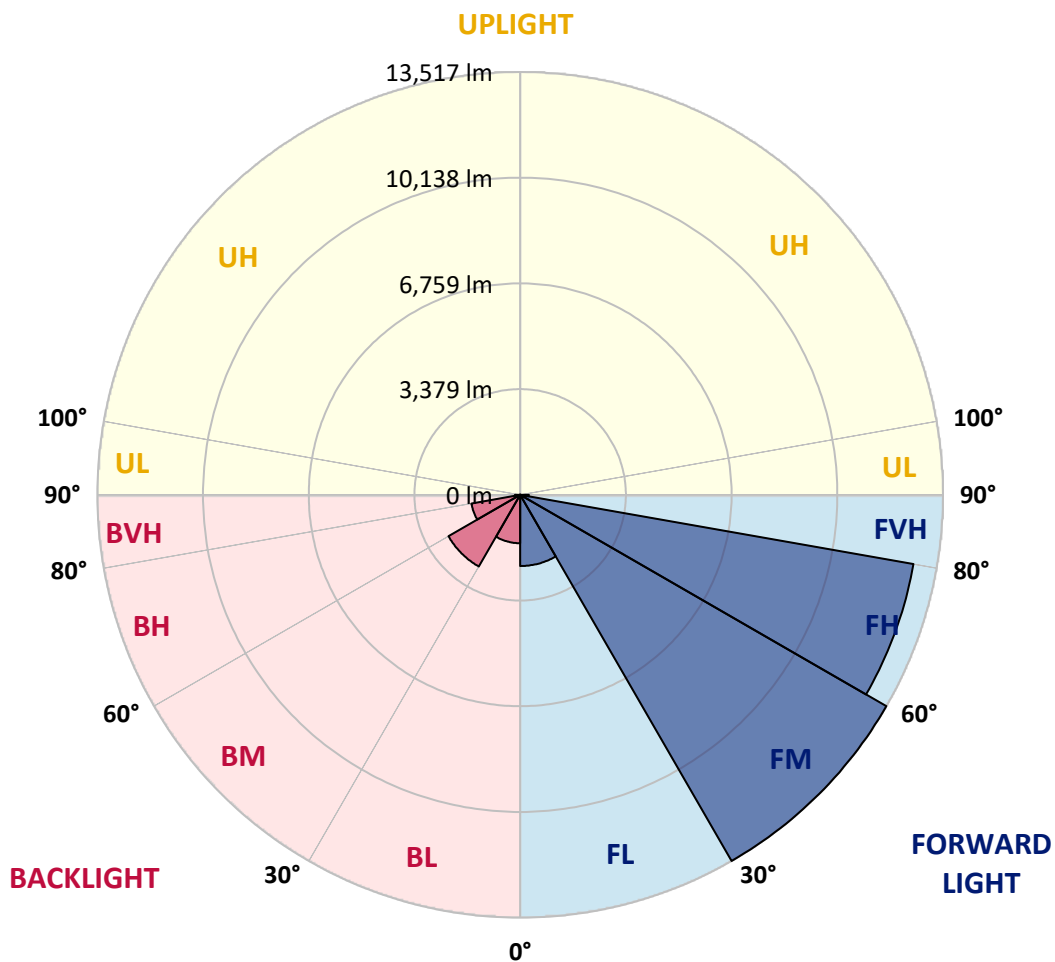
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2276.5	6.5			
FM (30°-60°)	13517.3	38.9			
FH (60°-80°)	12766.4	36.7			G5
FVH (80°-90°)	277.8	0.8			G3/500
BL (0°-30°)	1547.5	4.4	B3/2500		
BM (30°-60°)	2646.8	7.6	B3/5000		
BH (60°-80°)	1582.5	4.5	B3/2500		G3/2500
BVH (80°-90°)	165.2	0.5			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	4956.3	4956.3	4956.3	4956.3	4956.3	4956.3	4956.3	4956.3	4956.3	4956.3	4956.3
2.5°	4384.4	4414.0	4438.7	4461.7	4507.7	4583.3	4670.4	4741.0	4842.9	4862.6	4916.9
5°	3981.8	3981.8	4001.5	4036.0	4098.5	4211.9	4330.2	4488.0	4709.8	4762.4	4907.0
7.5°	3786.3	3787.9	3799.4	3829.0	3883.2	3986.7	4116.6	4302.3	4603.0	4690.1	4936.6
10°	3858.6	3842.1	3817.5	3802.7	3810.9	3871.7	3995.0	4202.0	4537.3	4649.0	5002.3
12.5°	4262.8	4231.6	4146.1	4032.8	3924.3	3879.9	3952.2	4154.4	4509.3	4639.2	5089.4
15°	4923.4	4910.3	4750.9	4515.9	4253.0	4032.8	3983.5	4136.3	4512.6	4650.7	5193.0
17.5°	5751.7	5733.6	5523.3	5181.5	4752.5	4323.6	4093.6	4151.1	4524.1	4670.4	5293.2
20°	6588.2	6532.3	6305.5	5897.9	5347.4	4719.7	4276.0	4188.9	4538.9	4691.7	5398.4
22.5°	7212.6	7166.6	6962.8	6566.8	5932.5	5178.2	4520.8	4254.6	4586.6	4754.2	5528.2
25°	7761.5	7764.8	7562.7	7179.8	6524.1	5664.6	4836.4	4430.4	4708.2	4882.4	5705.7
27.5°	8440.2	8400.8	8211.8	7832.2	7109.1	6156.0	5217.6	4672.0	4888.9	5064.8	5939.0
30°	9252.0	9224.1	9005.5	8575.0	7758.2	6683.5	5653.1	4953.0	5122.3	5304.7	6244.7
32.5°	10206.8	10193.6	9966.9	9413.1	8507.6	7304.6	6164.2	5324.4	5470.7	5659.7	6683.5
35°	11327.5	11329.2	11061.3	10395.8	9327.6	8027.7	6744.3	5802.6	5894.7	6091.9	7206.0
37.5°	12017.7	12101.6	12001.3	11322.6	10256.1	8836.2	7496.9	6437.0	6377.8	6576.6	7766.4
40°	12165.7	12267.5	12584.7	12239.6	11294.7	9726.9	8164.1	7046.6	6972.7	7215.9	8487.9
42.5°	11958.6	12099.9	12770.4	13013.6	12397.4	10824.7	9061.4	7952.1	7858.5	8185.5	9385.1
45°	11835.3	11940.5	12716.2	13416.2	13353.8	12065.4	10203.5	9089.3	9054.8	9483.7	10420.4
47.5°	11621.7	11717.0	12463.1	13509.9	13915.8	13202.6	11575.7	10479.6	10547.0	11109.0	11588.8
50°	11736.7	11776.2	12180.4	13271.6	14078.5	14035.8	13108.9	12090.1	12320.1	13021.8	12911.7
52.5°	11720.3	11822.2	12147.6	12880.5	14099.9	14550.1	14619.2	13886.2	14371.0	15176.3	14379.2
55°	9475.5	9662.8	11761.4	12781.9	14175.5	15054.6	15963.4	15779.4	16683.2	17621.5	16035.7
57.5°	9048.2	9166.6	10330.0	12989.0	14576.4	16017.6	17458.9	17863.1	19375.0	20464.5	18053.7
60°	8964.4	9110.7	10315.2	13242.0	15389.9	17587.0	19675.7	20385.6	22650.2	23843.2	20393.9
62.5°	8703.1	8860.9	10218.3	13209.2	16545.2	19757.9	22513.8	23067.6	25756.1	26916.3	22351.1
65°	7874.9	8022.8	9427.8	12678.4	17324.1	22075.0	25872.8	25526.0	28207.9	29080.6	23327.2
66°	7307.9	7452.5	8805.0	12053.9	17143.3	22732.3	27062.5	26286.9	28756.8	29440.4	23136.6
67.5°	6271.0	6384.4	7595.5	10655.4	16182.0	22916.4	28063.3	26858.8	28814.3	29055.9	22047.1
70°	3962.1	3995.0	4936.6	7355.6	12249.5	19874.6	26540.0	25438.9	26438.1	25784.0	18482.7
72.5°	1718.9	1707.4	2369.7	3741.9	6934.9	13335.7	21468.6	20990.4	20739.0	19246.8	12938.0
75°	956.4	969.6	1230.9	1737.0	2818.3	6550.4	14044.0	13439.2	11347.3	9682.6	5866.7
77.5°	767.4	785.5	1020.5	1232.5	1265.4	2284.2	6571.7	5347.4	3219.3	2583.3	1630.2
80°	606.4	639.3	890.7	959.7	852.9	941.6	2123.2	1697.6	1273.6	1168.4	844.7
82.5°	479.9	502.9	764.2	726.4	596.5	634.3	1017.2	990.9	828.2	754.3	488.1
85°	345.1	387.8	627.8	547.2	391.1	427.3	675.4	647.5	474.9	387.8	215.3
87.5°	141.3	184.1	443.7	363.2	218.6	198.8	336.9	317.2	225.1	164.3	106.8
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°	4956.3	4956.3	4956.3	4956.3	4956.3	4956.3	4956.3	4956.3	4956.3	4956.3	4956.3
2.5°	4951.4	4990.8	5041.8	5073.0	5089.4	5100.9	5119.0	5117.4	5122.3	5123.9	5130.5
5°	4984.3	5050.0	5123.9	5143.7	5143.7	5125.6	5107.5	5077.9	5066.4	5063.1	5066.4
7.5°	5069.7	5142.0	5206.1	5183.1	5133.8	5061.5	4967.8	4885.7	4841.3	4826.5	4823.2
10°	5178.2	5265.3	5291.6	5204.5	5059.8	4885.7	4700.0	4565.2	4488.0	4466.6	4460.0
12.5°	5309.6	5391.8	5355.6	5171.6	4903.7	4622.7	4366.4	4151.1	3990.0	3939.1	3935.8
15°	5454.2	5518.3	5391.8	5069.7	4670.4	4256.3	3799.4	3428.0	3227.5	3163.4	3158.5
17.5°	5589.0	5621.9	5370.4	4892.2	4326.9	3656.4	3050.0	2764.1	2695.1	2711.5	2714.8
20°	5704.0	5704.0	5298.1	4637.5	3786.3	2866.0	2483.1	2478.2	2527.5	2576.8	2586.6
22.5°	5830.6	5755.0	5171.6	4277.6	3020.5	2345.0	2289.2	2335.2	2391.1	2445.3	2453.5
25°	5986.7	5796.1	4995.8	3732.0	2374.6	2129.8	2151.1	2188.9	2216.9	2251.4	2256.3
27.5°	6160.9	5848.6	4764.0	2981.0	2060.7	1995.0	2011.4	2024.6	2021.3	2034.5	2037.7
30°	6369.6	5909.5	4446.9	2330.3	1930.9	1880.0	1850.4	1838.9	1838.9	1860.3	1868.5
32.5°	6649.0	5999.8	3991.7	1996.7	1868.5	1797.8	1702.5	1659.8	1676.2	1748.5	1764.9
35°	6956.3	6096.8	3375.4	1883.3	1855.3	1760.0	1612.1	1533.2	1534.9	1602.3	1623.6
37.5°	7291.5	6220.0	2700.0	1861.9	1884.9	1761.7	1564.5	1456.0	1411.6	1411.6	1419.8
40°	7720.4	6346.6	2185.6	1876.7	1947.4	1781.4	1539.8	1395.2	1270.3	1273.6	1280.2
42.5°	8279.2	6455.0	1909.6	1907.9	2023.0	1807.7	1538.2	1314.7	1206.2	1280.2	1347.5
45°	8900.3	6509.3	1788.0	1935.9	2083.8	1824.1	1511.9	1301.5	1214.4	1434.6	1562.8
47.5°	9615.2	6478.0	1720.6	1945.7	2098.5	1824.1	1482.3	1332.7	1271.9	1661.4	1811.0
50°	10399.1	6387.7	1654.8	1926.0	2093.6	1820.8	1510.2	1364.0	1293.3	1700.9	1804.4
52.5°	11321.0	6312.1	1585.8	1883.3	2059.1	1802.7	1543.1	1350.8	1225.9	1546.4	1618.7
55°	12372.7	6333.4	1508.6	1822.5	2004.9	1768.2	1531.6	1298.2	1155.3	1362.3	1406.7
57.5°	13717.0	6588.2	1416.6	1745.2	1930.9	1710.7	1490.5	1273.6	1133.9	1235.8	1262.1
60°	15217.3	7031.9	1301.5	1668.0	1838.9	1618.7	1459.3	1285.1	1143.8	1225.9	1239.1
62.5°	16318.4	7289.9	1202.9	1554.6	1714.0	1516.8	1419.8	1299.9	1170.1	1260.4	1257.2
65°	16617.5	6865.9	1079.7	1388.6	1544.7	1410.0	1370.5	1316.3	1181.6	1288.4	1273.6
66°	16198.4	6409.0	1025.4	1311.4	1459.3	1357.4	1345.9	1314.7	1176.6	1291.7	1267.0
67.5°	15181.2	5472.3	931.8	1198.0	1322.9	1278.5	1306.5	1299.9	1163.5	1288.4	1253.9
70°	12380.9	3733.7	797.0	997.5	1101.0	1125.7	1230.9	1247.3	1120.8	1230.9	1155.3
72.5°	8650.5	2274.4	705.0	774.0	890.7	959.7	1127.3	1175.0	1063.2	1074.7	1002.4
75°	4180.7	1207.9	639.3	599.8	691.8	802.0	1002.4	1076.4	972.9	898.9	872.6
77.5°	1303.2	737.9	542.3	483.1	542.3	647.5	838.1	943.3	866.0	752.7	742.8
80°	700.1	542.3	417.4	387.8	428.9	507.8	659.0	787.2	744.4	675.4	603.1
82.5°	461.8	351.7	308.9	300.7	327.0	387.8	489.7	652.4	652.4	578.5	420.7
85°	238.3	215.3	212.0	212.0	228.4	258.0	333.6	502.9	535.7	305.7	253.1
87.5°	118.3	123.3	115.0	120.0	128.2	126.5	159.4	253.1	302.4	185.7	154.5
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)