

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: P298948

Luminaire Tested: **GLNA-AF-06-LED-E1-T2-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298948
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: GLNA-AF-06-LED-E1-T2-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28127.9 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 249
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

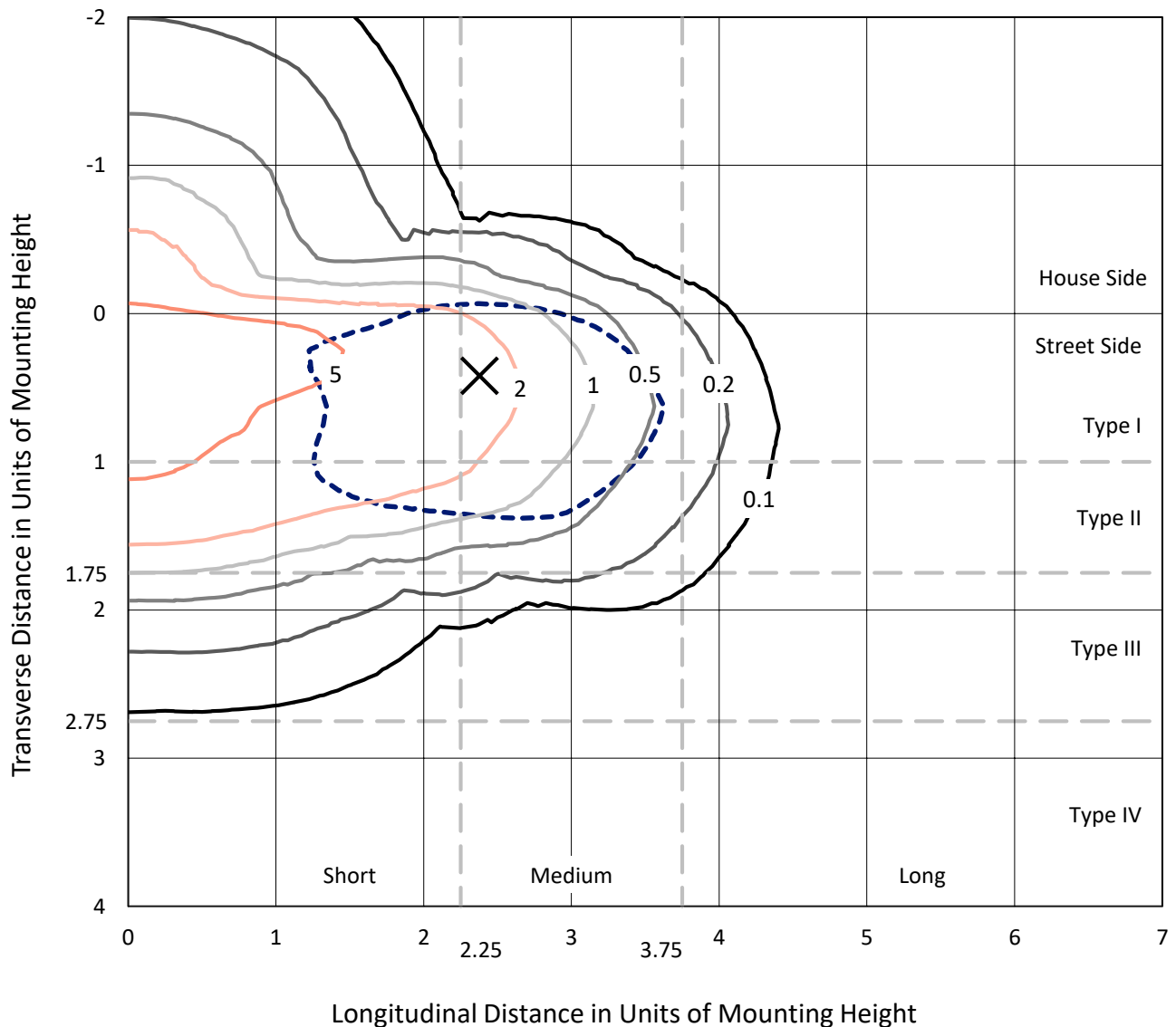


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Iso-Footcandle Lines of Horizontal Illumination

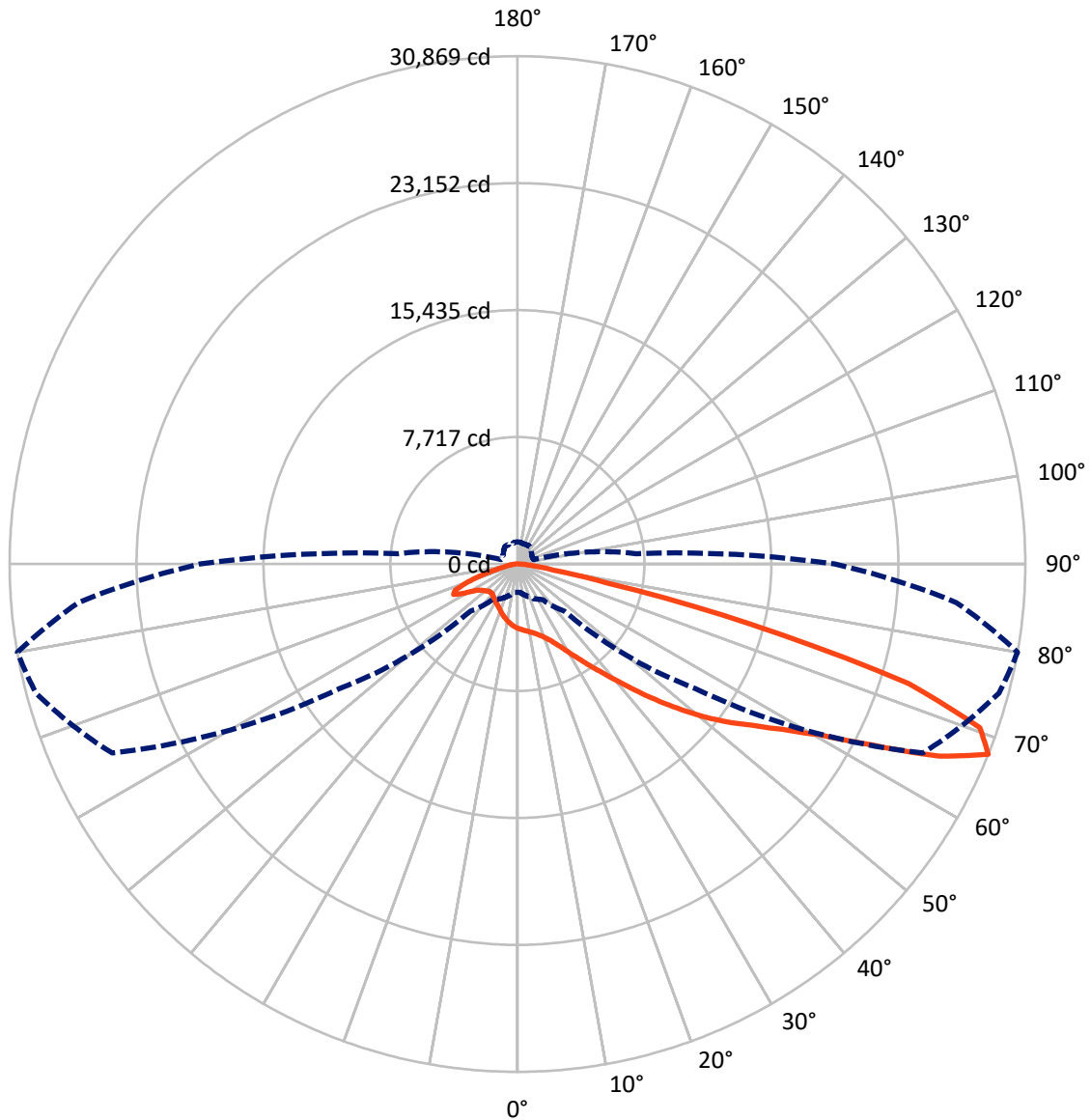
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	5180.1	0.0	5180.1
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	22947.8	0.0	22947.8
	% Fixture	81.6	0.0	81.6
Total	Lumens	28127.9	0.0	28127.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.5	1.3
10°-20°	1038.4	3.7
20°-30°	1718.8	6.1
30°-40°	2811.5	10.0
40°-50°	4539.5	16.1
50°-60°	6553.7	23.3
60°-70°	7232.5	25.7
70°-80°	3333.7	11.9
80°-90°	539.2	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°	28127.9	100.0
0°-180°	28127.9	100.0



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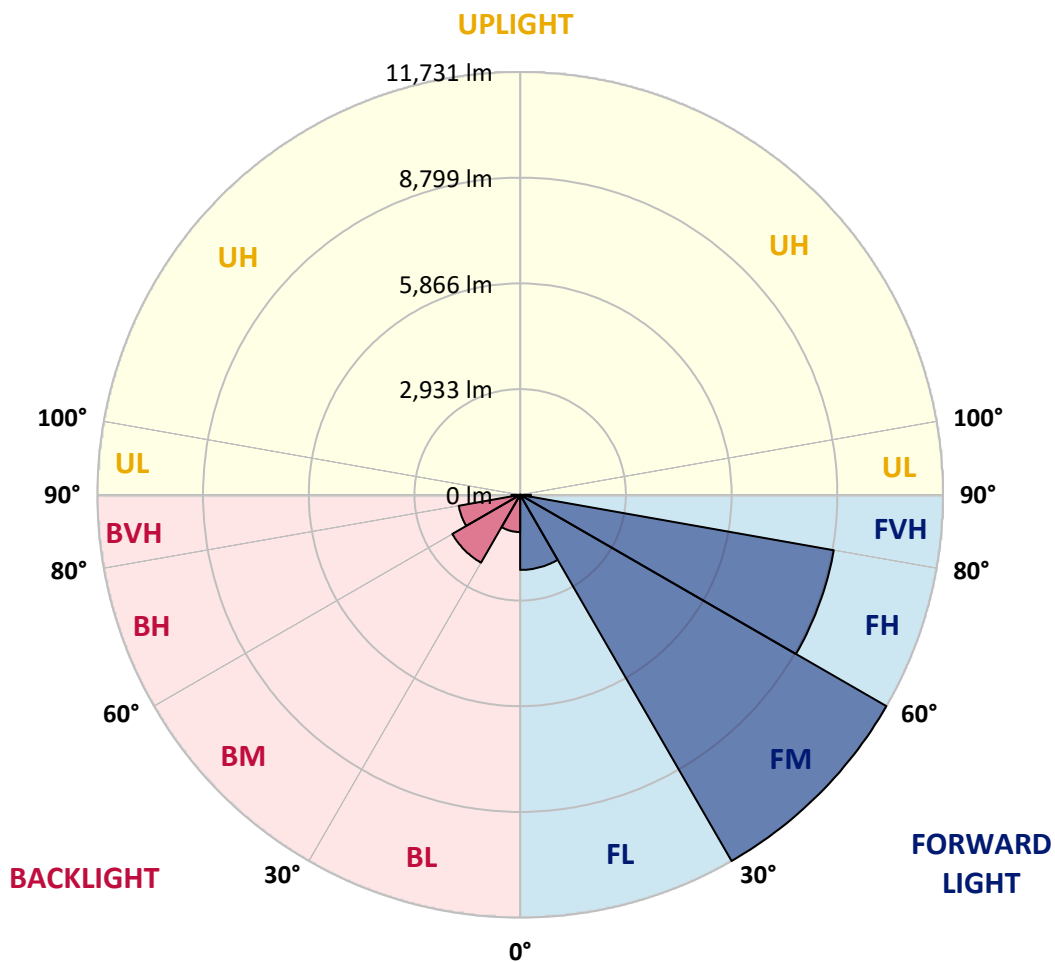
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2084.2	7.4			
FM (30°-60°)	11731.4	41.7			
FH (60°-80°)	8835.7	31.4			G4/12000
FVH (80°-90°)	296.5	1.1			G3/500
BL (0°-30°)	1033.5	3.7	B3/2500		
BM (30°-60°)	2173.4	7.7	B2/2500		
BH (60°-80°)	1730.5	6.2	B3/2500		G3/2500
BVH (80°-90°)	242.8	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°	3907.8	3907.8	3907.8	3907.8	3907.8	3907.8	3907.8	3907.8	3907.8	3907.8	3907.8
2.5°	4274.7	4249.8	4254.0	4247.0	4226.3	4190.3	4151.5	4080.9	4007.5	3968.7	3938.2
5°	4632.0	4625.1	4615.4	4593.2	4540.6	4465.8	4373.1	4248.4	4114.1	4043.5	3975.6
7.5°	4899.3	4895.1	4882.7	4868.8	4817.6	4727.6	4587.7	4410.5	4215.2	4118.3	4013.0
10°	4921.4	4928.3	4938.0	4975.4	4982.4	4933.9	4791.3	4576.6	4320.4	4195.8	4061.5
12.5°	4733.1	4748.3	4785.7	4881.3	4982.4	5041.9	4968.5	4751.1	4443.7	4292.7	4122.4
15°	4483.8	4492.2	4537.8	4669.4	4850.8	5035.0	5104.2	4943.6	4602.9	4417.4	4213.8
17.5°	4377.2	4381.4	4413.2	4500.5	4669.4	4932.5	5180.4	5152.7	4798.2	4572.5	4326.0
20°	4323.2	4332.9	4378.6	4464.5	4571.1	4801.0	5191.5	5378.4	5030.8	4766.3	4467.2
22.5°	4476.9	4472.8	4489.4	4532.3	4622.3	4760.8	5183.1	5611.0	5327.2	5015.6	4651.4
25°	4835.6	4850.8	4821.7	4773.3	4802.3	4899.3	5227.5	5863.1	5698.3	5335.5	4892.3
27.5°	5346.5	5331.3	5288.4	5174.8	5115.3	5156.8	5374.2	6134.5	6159.4	5756.4	5210.8
30°	5856.1	5843.7	5802.1	5663.7	5541.8	5507.2	5659.5	6446.0	6709.1	6261.9	5601.3
32.5°	6385.1	6371.3	6332.5	6194.0	6047.2	5966.9	6065.2	6806.1	7357.2	6865.6	6061.1
35°	7037.3	7011.0	6929.3	6736.8	6592.8	6530.5	6576.2	7258.9	8105.0	7580.2	6619.1
37.5°	7650.8	7690.9	7607.9	7342.0	7155.0	7132.9	7184.1	7811.4	8910.9	8379.2	7260.3
40°	8267.0	8273.9	8199.1	7981.7	7789.3	7753.3	7882.0	8481.6	9862.2	9334.6	8039.9
42.5°	8904.0	8917.8	8791.8	8591.0	8449.8	8456.7	8603.5	9266.8	10953.4	10460.5	8937.2
45°	9658.7	9679.4	9541.0	9277.9	9149.1	9408.0	9347.1	10147.5	12149.9	11740.0	9967.5
47.5°	10448.0	10479.8	10374.6	10128.1	9967.5	10323.4	10090.7	11123.8	13437.7	13112.3	11098.8
50°	10878.6	10924.3	11026.8	11008.8	10974.2	10914.7	10920.2	12170.6	14765.7	14541.3	12262.0
52.5°	10647.4	10646.0	11019.9	11474.1	11958.8	11994.8	11931.1	13274.3	16006.4	15938.5	13357.4
55°	9589.4	9661.4	10227.8	11107.1	12431.0	13257.7	13446.0	14538.6	17225.0	17303.9	14469.3
57.5°	7828.0	7887.6	8652.0	9877.5	11794.0	14008.2	15600.7	16376.1	18587.6	18955.9	15949.6
60°	5309.2	5381.2	6191.2	7663.2	10079.6	13590.0	17651.5	19655.2	20218.8	21056.6	18026.8
62.5°	3119.9	3184.9	3845.5	4834.2	7096.9	11647.2	18551.6	24320.5	22809.7	24226.3	21195.1
65°	2147.8	2192.1	2513.3	3009.1	4078.1	7844.6	17435.5	27541.4	26796.4	28153.5	24868.8
67.5°	1728.2	1722.6	1977.4	2315.3	2625.5	4044.9	13184.3	27177.2	30302.6	30869.0	26775.7
70°	1423.5	1418.0	1591.1	1870.8	2097.9	2277.9	7181.3	22934.3	29588.1	29818.0	25019.8
72.5°	1190.9	1196.4	1307.2	1514.9	1721.3	1715.7	3155.9	16133.8	23276.4	24866.1	19944.7
75°	1005.3	1008.1	1081.5	1228.3	1397.2	1382.0	1711.6	8740.6	13530.5	14636.9	11055.9
77.5°	855.8	858.5	905.6	987.3	1107.8	1102.3	1249.1	3776.2	5644.3	5575.0	3781.8
80°	763.0	763.0	785.2	800.4	866.9	841.9	926.4	1814.0	2385.9	2203.1	1509.4
82.5°	598.2	601.0	736.7	731.2	682.7	650.8	650.8	1069.0	1264.3	1168.7	883.5
85°	336.5	335.1	475.0	573.3	601.0	458.4	454.2	598.2	688.2	606.5	427.9
87.5°	144.0	146.8	220.2	254.8	340.7	285.3	281.1	308.8	350.3	303.3	198.0
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°	3907.8	3907.8	3907.8	3907.8	3907.8	3907.8	3907.8	3907.8	3907.8	3907.8	3907.8
2.5°	3909.2	3873.2	3794.2	3695.9	3607.3	3549.1	3496.5	3420.3	3424.5	3371.9	3333.1
5°	3906.4	3831.6	3648.8	3431.4	3222.3	3071.4	2957.8	2855.4	2830.4	2782.0	2752.9
7.5°	3909.2	3787.3	3479.9	3132.3	2873.4	2682.3	2585.3	2531.3	2518.9	2502.3	2503.6
10°	3918.9	3747.2	3294.3	2852.6	2581.2	2455.2	2431.6	2448.2	2467.6	2473.2	2474.6
12.5°	3941.0	3711.1	3090.8	2603.3	2398.4	2359.6	2399.8	2456.6	2493.9	2511.9	2510.6
15°	3990.9	3683.5	2895.5	2408.1	2297.3	2318.1	2392.9	2473.2	2527.2	2552.1	2553.5
17.5°	4044.9	3643.3	2694.7	2258.5	2222.5	2275.2	2367.9	2462.1	2528.6	2556.3	2561.8
20°	4115.5	3593.4	2484.3	2146.4	2151.9	2211.5	2298.7	2392.9	2466.3	2489.8	2500.9
22.5°	4208.3	3539.4	2300.1	2055.0	2071.6	2117.3	2185.1	2266.8	2330.5	2341.6	2351.3
25°	4332.9	3481.3	2153.3	1971.9	1978.8	2005.1	2050.8	2099.3	2143.6	2131.1	2140.8
27.5°	4500.5	3431.4	2043.9	1895.7	1883.3	1888.8	1912.3	1927.6	1951.1	1916.5	1920.7
30°	4697.1	3377.4	1959.4	1829.3	1794.6	1785.0	1790.5	1798.8	1816.8	1769.7	1762.8
32.5°	4925.6	3312.3	1880.5	1771.1	1722.6	1703.3	1706.0	1728.2	1797.4	1768.3	1753.1
35°	5191.5	3238.9	1797.4	1707.4	1674.2	1646.5	1643.7	1712.9	1919.3	1901.3	1887.4
37.5°	5503.0	3165.6	1714.3	1635.4	1638.2	1607.7	1598.0	1676.9	1942.8	1872.2	1862.5
40°	5899.1	3126.8	1643.7	1559.2	1593.9	1589.7	1570.3	1610.5	1787.7	1658.9	1642.3
42.5°	6389.3	3132.3	1591.1	1477.5	1541.2	1585.5	1555.1	1556.5	1620.2	1523.2	1508.0
45°	6994.4	3197.4	1553.7	1412.5	1481.7	1581.4	1549.5	1527.4	1532.9	1481.7	1473.4
47.5°	7700.6	3331.7	1527.4	1358.4	1424.9	1566.2	1548.2	1519.1	1506.6	1478.9	1472.0
50°	8485.8	3527.0	1508.0	1307.2	1373.7	1541.2	1549.5	1510.8	1496.9	1485.8	1481.7
52.5°	9257.1	3749.9	1478.9	1262.9	1333.5	1510.8	1553.7	1502.5	1487.2	1478.9	1474.8
55°	10117.0	4028.3	1434.6	1225.5	1300.3	1472.0	1553.7	1490.0	1473.4	1474.8	1473.4
57.5°	11278.8	4478.3	1382.0	1193.7	1260.1	1424.9	1527.4	1476.2	1455.4	1456.8	1458.1
60°	13094.3	5271.8	1318.3	1161.8	1210.3	1369.5	1491.4	1445.7	1424.9	1430.5	1431.8
62.5°	15764.1	6436.3	1235.2	1114.7	1157.7	1310.0	1441.5	1406.9	1386.1	1400.0	1400.0
65°	18539.1	7463.8	1132.7	1055.2	1102.3	1244.9	1379.2	1358.4	1337.7	1369.5	1368.1
67.5°	19285.5	7234.0	1030.3	990.1	1046.9	1172.9	1304.4	1293.4	1282.3	1337.7	1334.9
70°	17132.2	5807.7	936.1	923.6	985.9	1095.3	1224.1	1224.1	1217.2	1258.7	1249.1
72.5°	13052.7	4118.3	846.1	853.0	916.7	1010.9	1136.9	1146.6	1135.5	1156.3	1148.0
75°	6987.5	2356.9	756.1	775.5	830.9	925.0	1040.0	1049.6	1042.7	1041.3	1045.5
77.5°	2322.2	1152.1	661.9	692.4	740.8	836.4	938.9	954.1	937.5	934.7	933.3
80°	1034.4	724.2	558.1	598.2	641.1	735.3	832.2	844.7	826.7	851.6	819.8
82.5°	664.7	476.4	447.3	491.6	533.1	634.2	725.6	728.4	711.8	826.7	704.8
85°	322.6	295.0	336.5	376.7	412.7	498.5	601.0	602.4	560.8	511.0	493.0
87.5°	160.6	171.7	224.3	260.3	278.3	342.0	437.6	429.3	411.3	373.9	344.8
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)