

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: P529346

Luminaire Tested: **GALN-SA4C-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-730-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22856 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

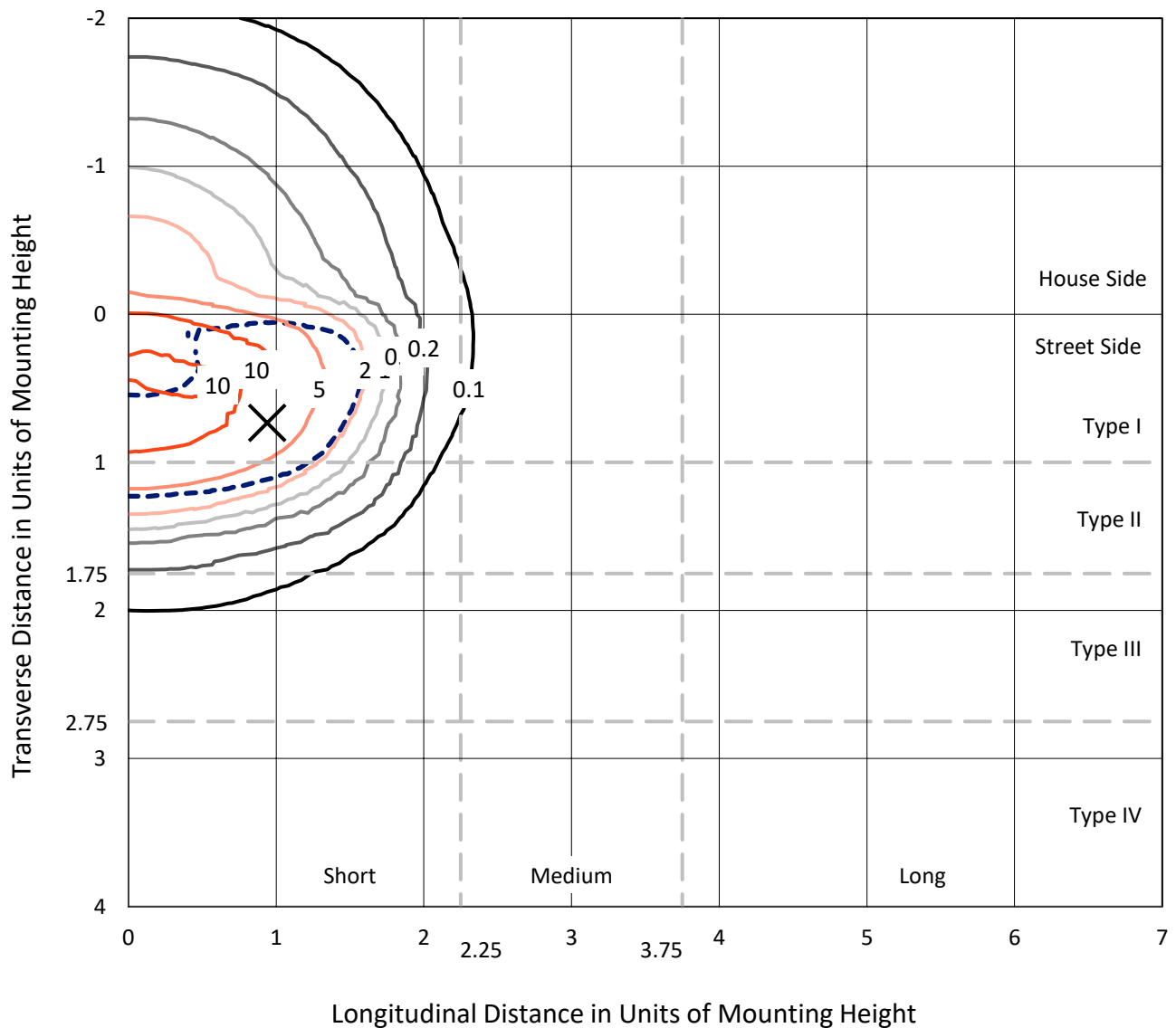
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

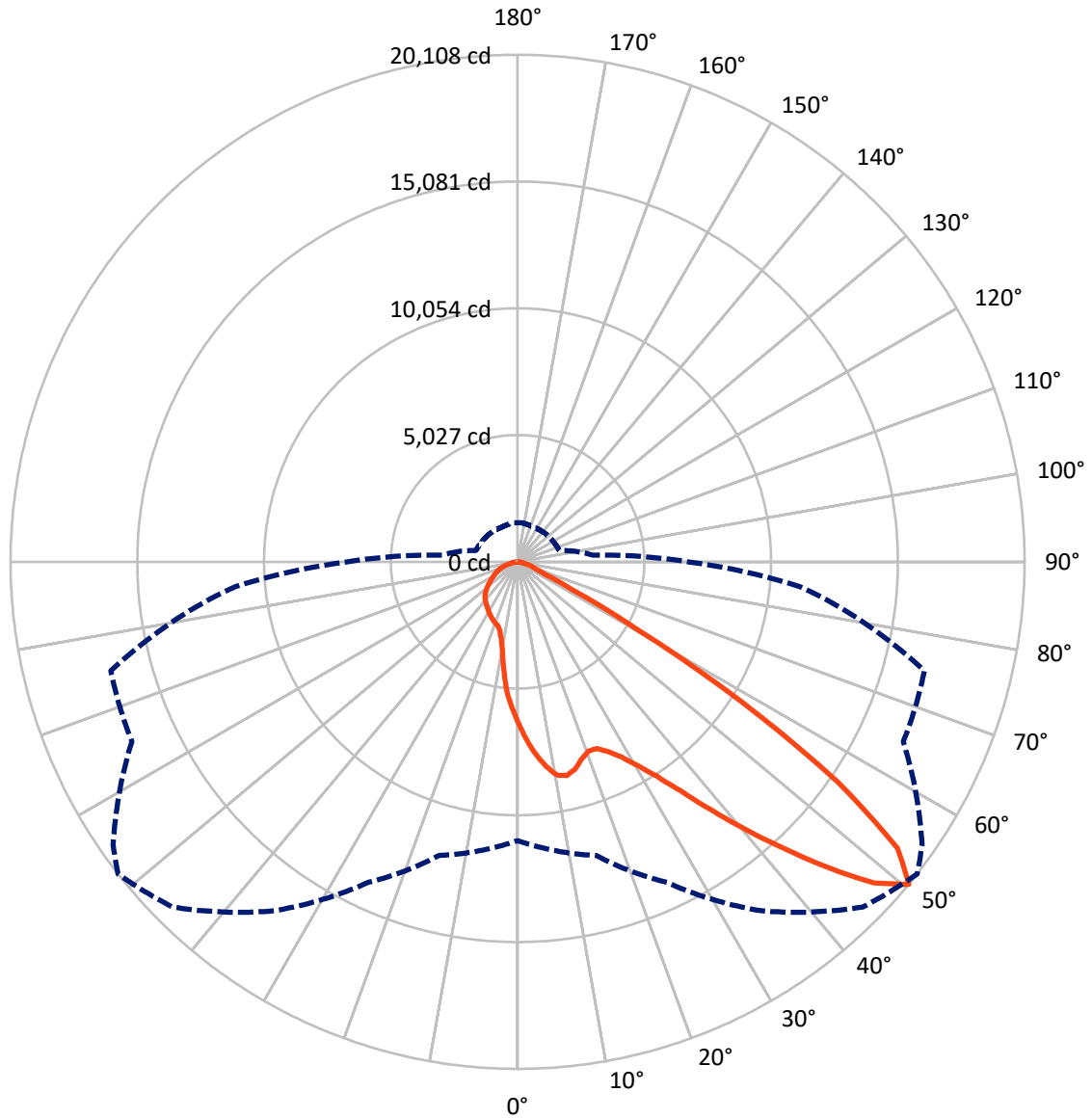
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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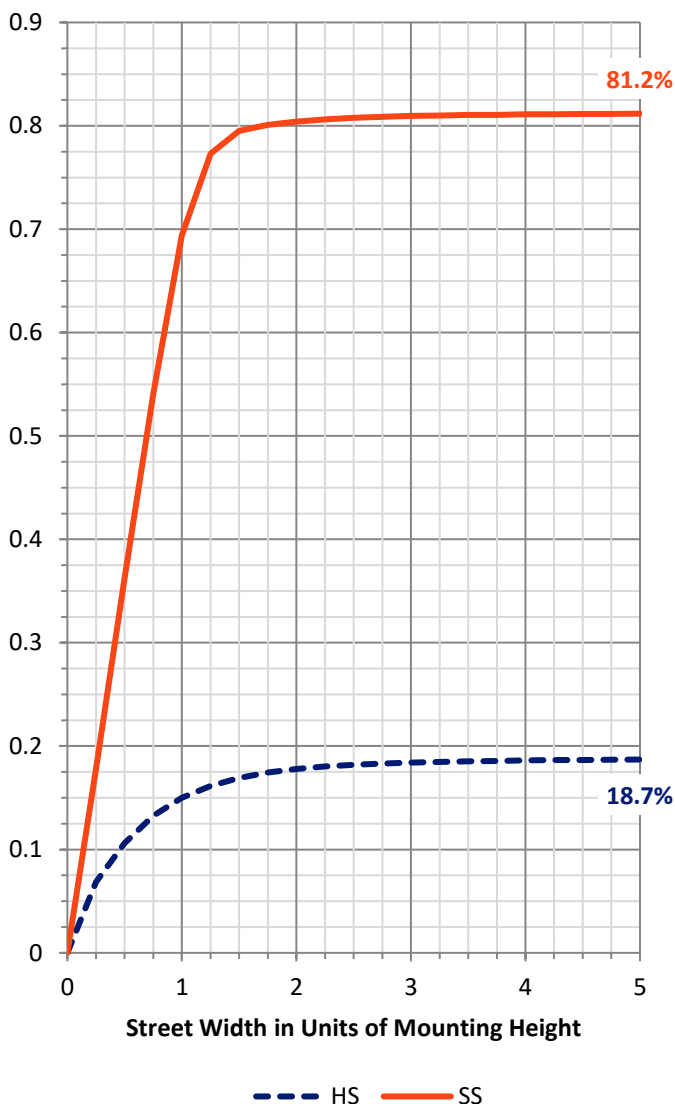
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4296.4	0.0	4296.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	18559.6	0.0	18559.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	22856.0	0.0	22856.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	593.8	2.6
10°-20°	1591.6	7.0
20°-30°	2681.0	11.7
30°-40°	4498.9	19.7
40°-50°	6882.2	30.1
50°-60°	5017.7	22.0
60°-70°	1116.7	4.9
70°-80°	402.8	1.8
80°-90°	71.3	0.3
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°	22856.0	100.0
0°-180°	22856.0	100.0

Coefficient of Utilization

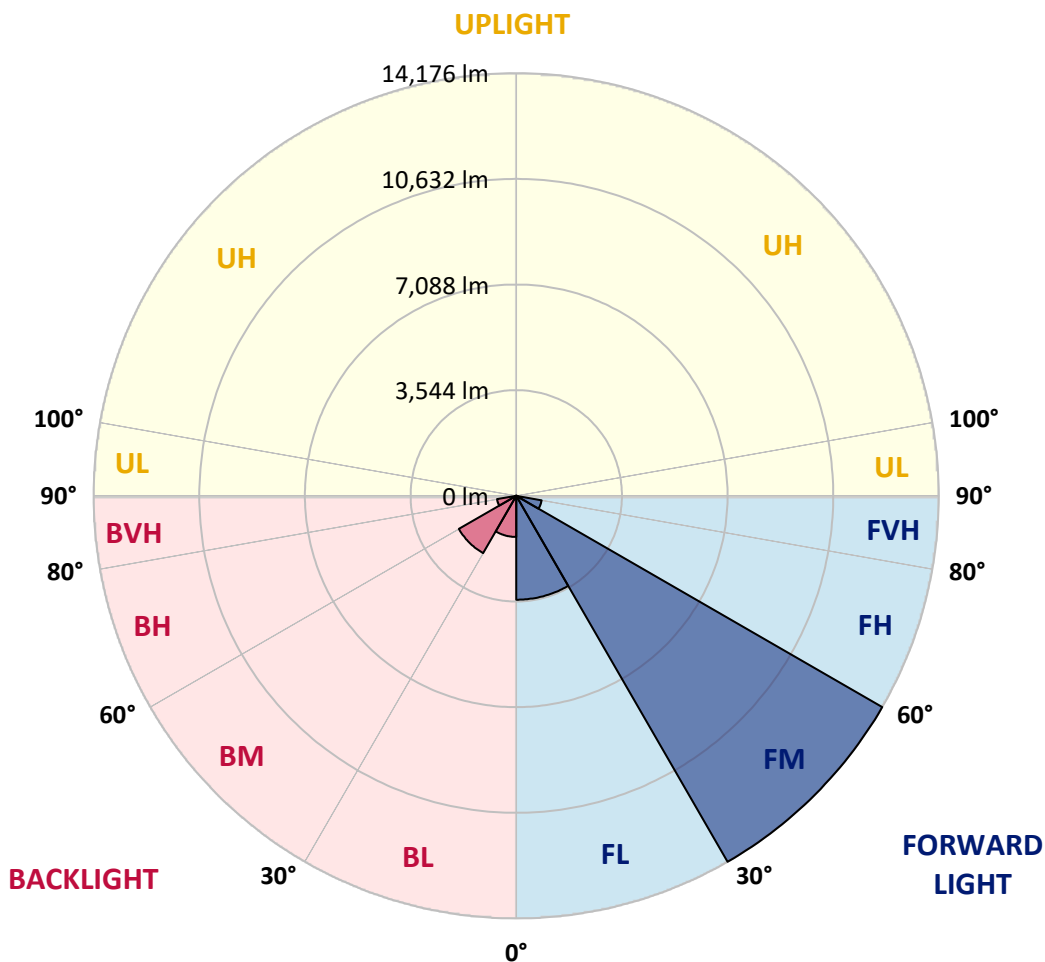


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3486.3	15.3			
FM (30°-60°)	14176.5	62.0			
FH (60°-80°)	864.9	3.8			G1/1800
FVH (80°-90°)	32.0	0.1			G1/100
BL (0°-30°)	1380.1	6.0	B3/2500		
BM (30°-60°)	2222.4	9.7	B2/2500		
BH (60°-80°)	654.6	2.9	B2/1000		G2/1000
BVH (80°-90°)	39.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	6442.7	6442.7	6442.7	6442.7	6442.7	6442.7	6442.7	6442.7	6442.7	6442.7	6442.7
2.5°	7585.8	7439.8	7456.4	7351.7	7238.8	7205.7	7090.0	6979.9	6897.2	6720.9	6558.4
5°	8291.0	8246.9	8180.8	8098.2	8012.8	7803.4	7685.0	7547.3	7244.3	6971.6	6701.6
7.5°	8392.9	8384.6	8420.4	8420.4	8450.7	8370.9	8202.8	8106.4	7784.2	7340.7	6839.4
10°	7676.7	7701.5	7875.1	8100.9	8414.9	8632.5	8605.0	8580.2	8227.6	7621.6	7001.9
12.5°	7106.6	7051.5	7153.4	7346.2	7817.2	8343.3	8698.6	8701.4	8610.5	8070.6	7120.3
15°	6784.3	6822.8	6850.4	6941.3	7296.6	7905.4	8530.6	8715.2	9114.6	8387.4	7307.6
17.5°	6990.9	6861.4	6855.9	6877.9	7059.7	7517.0	8219.4	8536.1	9390.0	8795.1	7539.0
20°	7260.8	7258.1	7180.9	7153.4	7150.6	7558.3	8015.5	8445.2	9536.0	9323.9	7773.1
22.5°	7734.6	7734.6	7607.9	7547.3	7417.8	7751.1	8043.1	8335.1	9778.4	9687.5	7886.1
25°	8527.9	8398.4	8180.8	8032.1	7957.7	8076.1	8335.1	8596.7	9990.5	10073.1	8120.2
27.5°	9260.6	9056.7	8949.3	8693.1	8594.0	8525.1	8762.0	9026.4	10238.4	10673.6	8246.9
30°	10092.4	10056.6	9863.8	9533.3	9288.1	9161.4	9379.0	9640.7	10692.9	11287.9	8538.9
32.5°	11579.8	11254.8	10993.1	10588.2	10188.8	9918.9	10133.7	10307.3	11447.6	11929.7	8858.4
35°	13185.7	13081.0	12629.3	11899.4	11287.9	11045.5	11172.2	11301.6	12326.3	12910.2	9395.5
37.5°	14764.0	14620.8	14248.9	13634.7	12891.0	12397.9	12488.8	12640.3	13312.4	14232.4	10051.1
40°	15898.9	15722.6	15535.3	15444.4	14706.2	14031.3	13979.0	14017.5	14645.6	15471.9	10778.3
42.5°	15981.5	16199.1	16256.9	16623.3	16449.8	15896.1	15573.8	15582.1	15918.1	16697.7	11513.7
45°	15808.0	15606.9	16033.8	17033.7	17606.6	17865.6	17322.9	17254.1	16705.9	17408.3	11880.1
47.5°	13987.2	14042.3	14764.0	16345.1	18000.5	19157.4	19030.7	18802.1	17127.4	17383.5	11822.2
50°	11056.5	11389.8	12059.1	14028.6	16898.7	19361.2	20107.7	19578.8	16876.7	16700.4	11232.8
52.5°	7362.7	7500.4	7941.2	10483.5	13587.8	17306.4	18868.2	18989.4	16645.3	15805.2	10486.3
55°	3277.8	3266.8	3886.6	5475.9	8525.1	13169.2	15416.8	16155.0	15755.6	14893.5	9759.1
57.5°	1388.3	1435.1	1688.5	2366.1	4192.3	7946.7	10445.0	11092.3	12117.0	12229.9	7486.7
60°	939.3	944.8	1013.6	1184.4	1754.6	3732.3	5478.7	6255.4	6988.1	6938.5	3972.0
62.5°	738.2	757.5	809.8	878.7	1041.2	1694.0	2451.5	2883.9	2930.8	2465.3	1506.7
65°	630.8	633.5	685.9	743.7	815.3	986.1	1181.7	1203.7	1217.5	1173.4	1107.3
67.5°	520.6	526.1	567.4	633.5	699.6	754.7	809.8	837.4	900.7	1024.7	1008.1
70°	413.2	421.4	457.2	512.3	572.9	606.0	674.8	699.6	757.5	853.9	892.5
72.5°	314.0	316.8	347.1	385.6	440.7	473.8	531.6	559.2	597.7	680.4	716.2
75°	225.9	234.1	256.2	275.4	283.7	305.7	360.8	391.1	446.2	482.0	484.8
77.5°	118.4	124.0	129.5	129.5	157.0	198.3	234.1	250.7	289.2	316.8	303.0
80°	46.8	49.6	63.4	85.4	110.2	143.2	168.0	176.3	209.3	225.9	234.1
82.5°	27.5	30.3	41.3	60.6	79.9	101.9	121.2	129.5	151.5	170.8	176.3
85°	13.8	16.5	24.8	38.6	52.3	63.4	60.6	57.8	57.8	55.1	57.8
87.5°	5.5	5.5	8.3	8.3	8.3	11.0	13.8	13.8	13.8	16.5	16.5
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°	6442.7	6442.7	6442.7	6442.7	6442.7	6442.7	6442.7	6442.7	6442.7	6442.7	6442.7
2.5°	6451.0	6340.8	6238.9	6051.6	5847.8	5789.9	5553.0	5467.6	5407.0	5335.4	5313.4
5°	6484.0	6338.1	6010.3	5632.9	5332.7	4947.0	4693.6	4420.9	4222.6	4173.0	4159.3
7.5°	6552.9	6302.2	5737.6	5167.4	4553.2	4029.8	3630.4	3415.6	3225.5	3214.5	3195.2
10°	6630.0	6194.8	5440.1	4544.9	3759.9	3275.1	3035.4	2941.8	2895.0	2883.9	2878.4
12.5°	6693.4	6172.8	5106.8	3938.9	3198.0	2906.0	2834.4	2826.1	2845.4	2850.9	2861.9
15°	6720.9	6084.6	4704.7	3396.3	2848.1	2740.7	2771.0	2804.1	2817.8	2853.6	2826.1
17.5°	6773.3	5971.7	4208.8	2966.6	2652.6	2671.8	2724.2	2762.7	2784.8	2809.6	2773.8
20°	6800.8	5869.8	3743.3	2710.4	2583.7	2619.5	2691.1	2721.4	2749.0	2760.0	2718.7
22.5°	6776.0	5660.5	3332.9	2503.8	2517.6	2564.4	2627.8	2660.8	2644.3	2600.2	2575.4
25°	6709.9	5365.7	2906.0	2371.6	2423.9	2506.6	2556.2	2531.4	2501.1	2476.3	2468.0
27.5°	6707.2	5004.9	2597.5	2250.4	2344.1	2457.0	2440.5	2418.4	2432.2	2412.9	2390.9
30°	6720.9	4655.1	2344.1	2181.5	2286.2	2341.3	2360.6	2338.6	2355.1	2319.3	2330.3
32.5°	6649.3	4313.5	2178.8	2101.7	2217.4	2214.6	2278.0	2294.5	2255.9	2181.5	2192.6
35°	6679.6	4038.1	2038.3	2065.9	2140.2	2140.2	2189.8	2170.5	2068.6	2024.5	2035.6
37.5°	6889.0	3768.1	1969.5	2016.3	2065.9	2087.9	2071.4	1988.7	1963.9	1963.9	1969.5
40°	7087.3	3536.8	1928.1	2005.3	1997.0	2010.8	1889.6	1897.8	1897.8	1900.6	1886.8
42.5°	7263.6	3379.7	1895.1	1939.2	1952.9	1881.3	1806.9	1798.7	1818.0	1815.2	1804.2
45°	7326.9	3250.3	1848.3	1864.8	1875.8	1757.4	1721.5	1705.0	1727.1	1735.3	1746.3
47.5°	7084.5	3142.9	1795.9	1762.9	1740.8	1663.7	1616.9	1586.6	1614.1	1661.0	1672.0
50°	6773.3	3002.4	1713.3	1649.9	1603.1	1570.1	1537.0	1506.7	1526.0	1559.0	1550.8
52.5°	6313.3	2782.0	1608.6	1542.5	1462.6	1470.9	1440.6	1424.1	1435.1	1435.1	1426.8
55°	5657.7	2286.2	1432.3	1385.5	1319.4	1341.4	1346.9	1324.9	1302.9	1322.2	1305.6
57.5°	3861.8	1614.1	1278.1	1278.1	1212.0	1242.3	1239.5	1187.2	1134.8	1140.4	1129.3
60°	2233.9	1286.3	1178.9	1167.9	1099.0	1123.8	1129.3	1093.5	1013.6	1019.2	1008.1
62.5°	1269.8	1099.0	1030.2	1013.6	999.9	1021.9	1021.9	975.1	906.2	911.7	900.7
65°	1079.8	1019.2	920.0	917.2	911.7	917.2	895.2	845.6	785.0	760.2	763.0
67.5°	980.6	942.0	845.6	820.8	804.3	801.6	760.2	713.4	685.9	663.8	661.1
70°	859.4	829.1	757.5	724.4	707.9	669.3	628.0	597.7	559.2	548.1	559.2
72.5°	680.4	677.6	650.1	614.2	578.4	548.1	512.3	471.0	435.2	426.9	407.7
75°	471.0	476.5	482.0	476.5	446.2	407.7	366.3	333.3	289.2	264.4	258.9
77.5°	308.5	316.8	325.0	314.0	294.7	258.9	231.4	190.1	157.0	137.7	135.0
80°	225.9	236.9	242.4	234.1	212.1	184.6	154.3	121.2	96.4	79.9	79.9
82.5°	173.5	184.6	190.1	176.3	154.3	132.2	110.2	85.4	66.1	52.3	49.6
85°	60.6	57.8	68.9	71.6	85.4	79.9	66.1	49.6	38.6	27.5	24.8
87.5°	16.5	16.5	19.3	19.3	16.5	13.8	13.8	13.8	11.0	8.3	8.3
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)