

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: P528424

Luminaire Tested: **GALN-SA3C-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528424
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-730-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16796 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

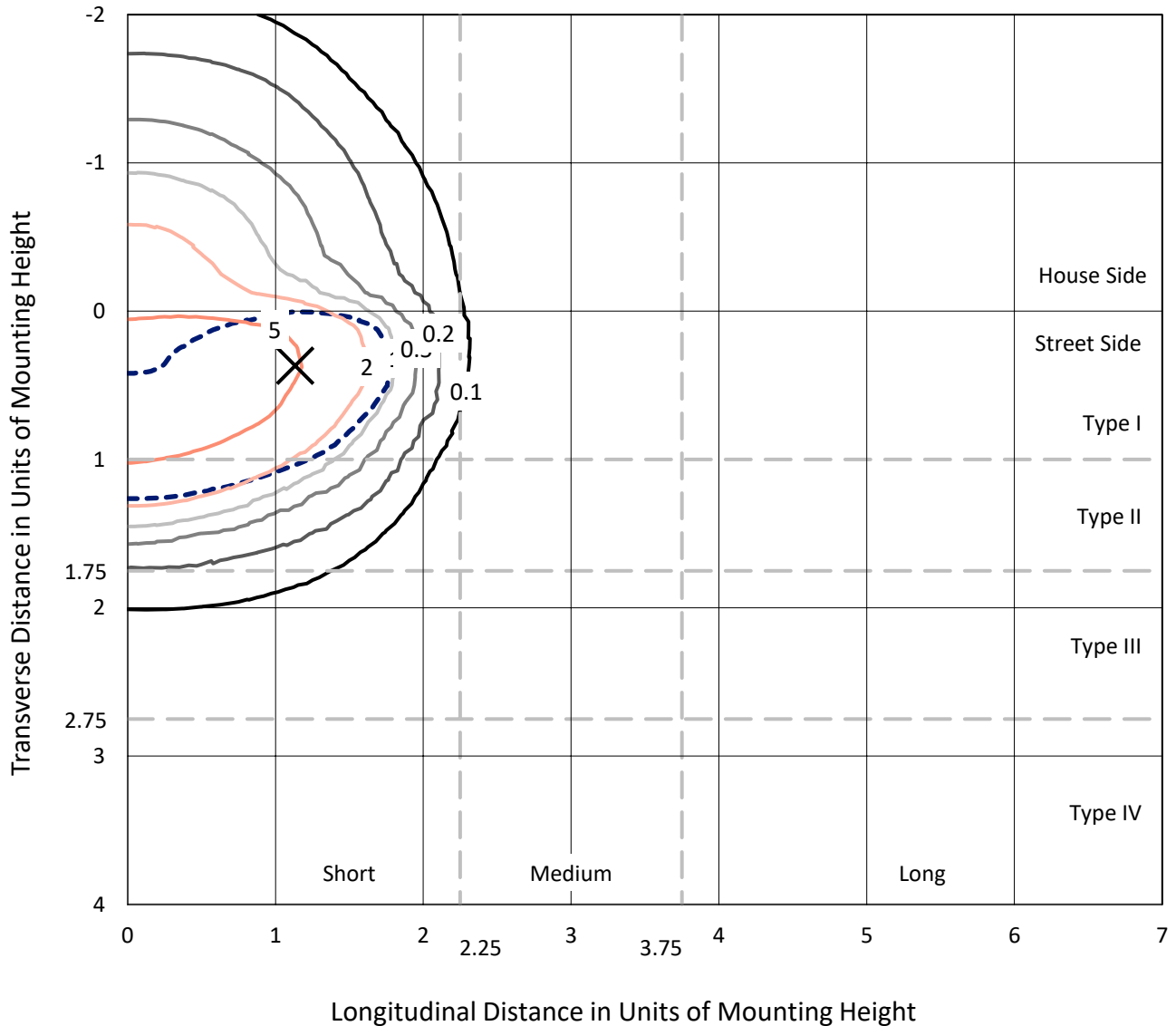
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

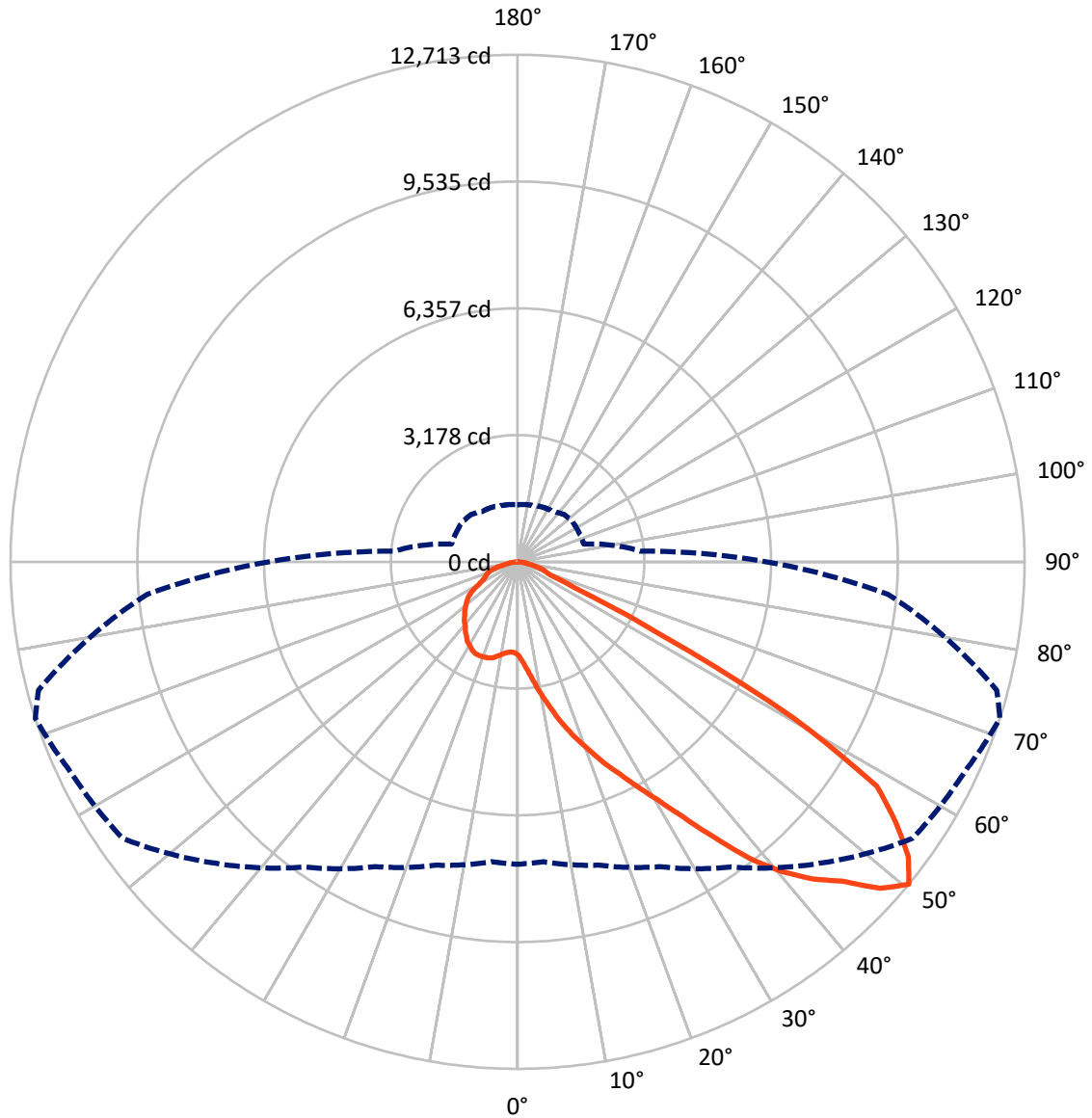
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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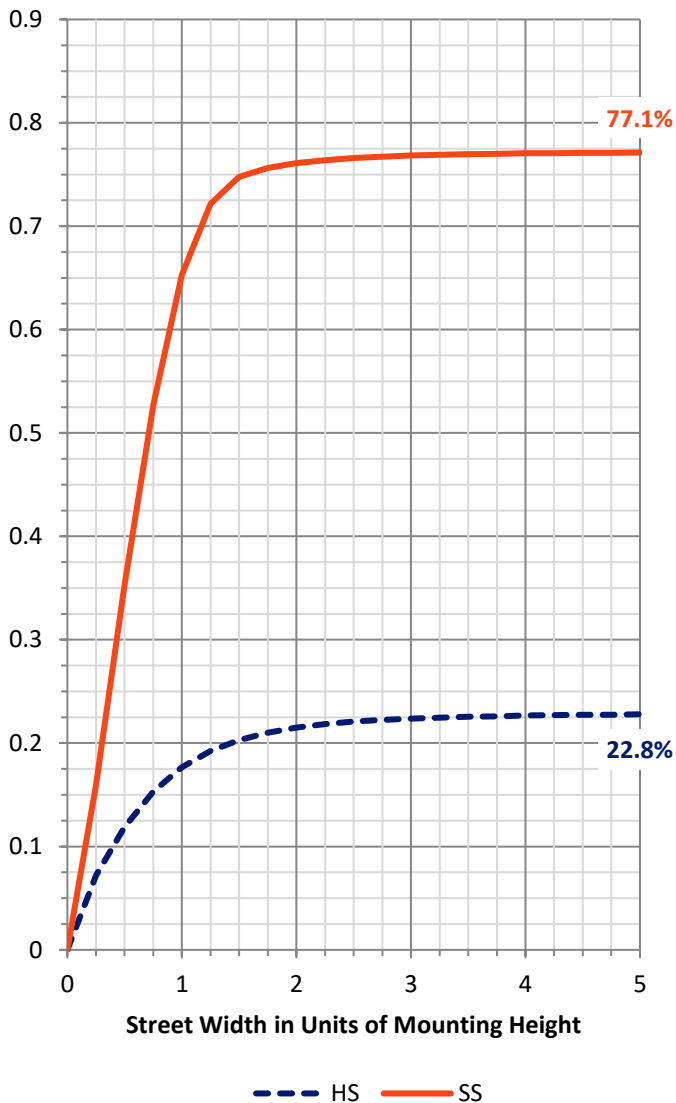
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3848.1	0.0	3848.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	12947.9	0.0	12947.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	16796.0	0.0	16796.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.0	1.6
10°-20°	1028.1	6.1
20°-30°	1993.5	11.9
30°-40°	3302.5	19.7
40°-50°	4620.9	27.5
50°-60°	3898.4	23.2
60°-70°	1188.2	7.1
70°-80°	416.9	2.5
80°-90°	72.5	0.4
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°	16796.0	100.0
0°-180°	16796.0	100.0

Coefficient of Utilization

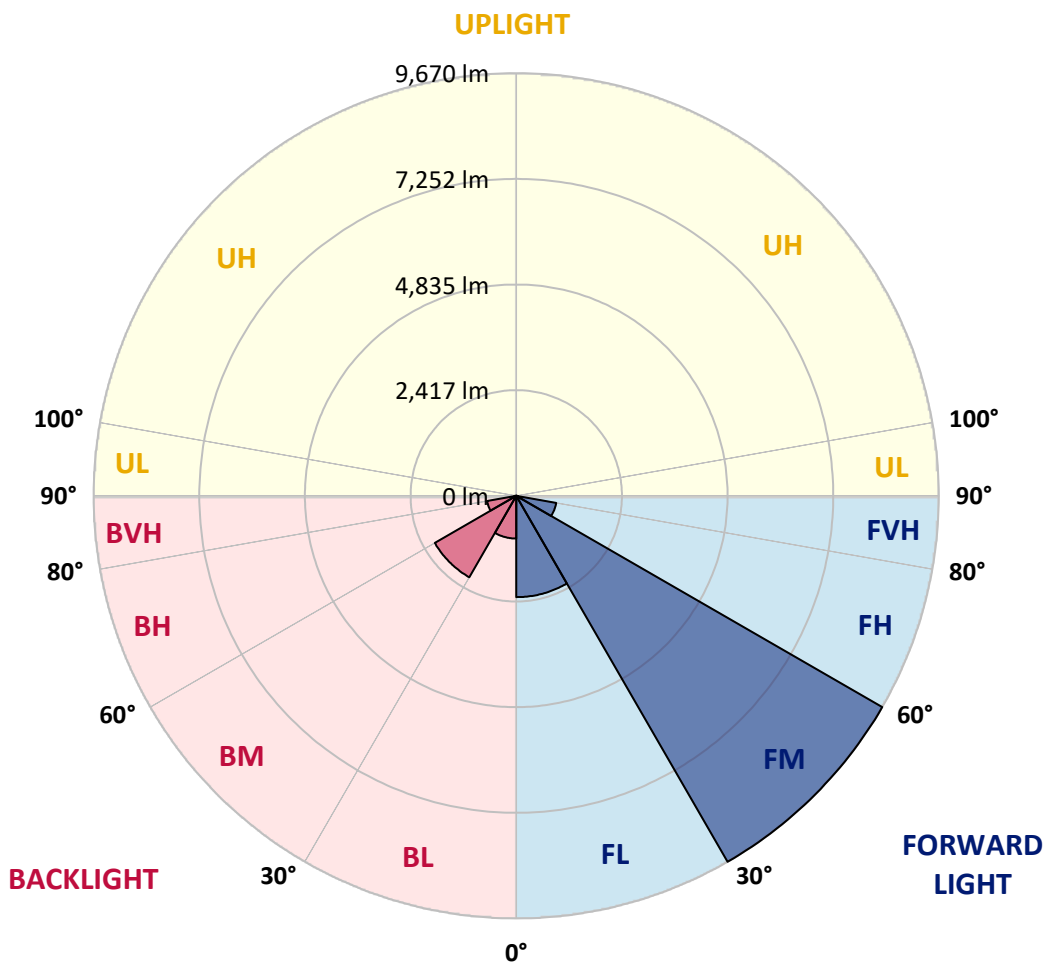


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2318.5	13.8			
FM (30°-60°)	9669.9	57.6			
FH (60°-80°)	927.1	5.5			G1/1800
FVH (80°-90°)	32.5	0.2			G1/100
BL (0°-30°)	978.2	5.8	B2/1000		
BM (30°-60°)	2151.9	12.8	B2/2500		
BH (60°-80°)	678.0	4.0	B2/1000		G2/1000
BVH (80°-90°)	40.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2338.1	2338.1	2338.1	2338.1	2338.1	2338.1	2338.1	2338.1	2338.1	2338.1	2338.1
2.5°	3007.4	2988.7	2932.6	2913.9	2847.3	2726.8	2685.2	2562.6	2510.6	2462.8	2406.7
5°	3803.4	3716.1	3709.9	3603.9	3450.1	3360.7	3094.7	2915.9	2751.7	2668.6	2514.8
7.5°	4310.5	4312.6	4312.6	4225.3	4102.7	3876.1	3637.1	3315.0	3067.6	2945.0	2683.2
10°	4792.7	4751.1	4728.3	4719.9	4636.8	4416.5	4160.9	3761.8	3423.0	3279.6	2809.9
12.5°	5133.5	5098.2	5150.2	5123.1	5062.9	4919.5	4678.4	4223.2	3799.2	3605.9	3013.6
15°	5295.6	5320.6	5362.1	5437.0	5410.0	5355.9	5089.9	4697.1	4204.5	3986.3	3194.4
17.5°	5545.0	5476.5	5526.3	5619.9	5694.7	5669.7	5518.0	5040.0	4605.6	4337.5	3437.6
20°	5719.6	5680.1	5705.1	5813.2	5869.3	6010.6	5931.6	5488.9	4990.1	4707.5	3724.4
22.5°	6218.4	6160.2	6079.2	6095.8	6116.6	6216.4	6235.1	5981.5	5437.0	5137.7	3996.7
25°	6833.6	6779.6	6684.0	6586.3	6526.0	6507.3	6571.8	6368.1	5865.1	5555.4	4289.7
27.5°	7511.2	7419.7	7359.4	7157.8	6995.7	6970.8	6939.6	6829.5	6372.2	6037.6	4620.2
30°	8170.0	8097.3	8016.2	7694.1	7525.7	7498.7	7344.9	7376.1	6923.0	6551.0	4994.3
32.5°	8668.8	8675.0	8490.1	8246.9	8088.9	7945.5	7889.4	7978.8	7629.6	7330.3	5412.0
35°	9072.0	9090.7	8914.1	8693.7	8523.3	8623.1	8598.1	8639.7	8473.4	8107.7	5898.4
37.5°	9464.8	9371.3	9182.2	9076.2	8986.8	9151.0	9363.0	9398.3	9429.5	8999.3	6463.7
40°	9529.2	9537.6	9427.4	9502.2	9390.0	9637.3	10129.9	10084.2	10210.9	9834.8	7076.8
42.5°	9437.8	9456.5	9500.1	9606.1	9876.3	10173.5	10905.1	10718.1	10871.9	10537.2	7673.3
45°	9288.2	9211.3	9265.3	9668.5	10136.1	10797.0	11613.8	11468.3	11418.5	11137.9	8384.1
47.5°	8573.2	8652.2	8820.5	9317.3	10019.7	10905.1	12116.8	12083.5	12233.2	12035.7	9030.4
50°	7581.8	7550.7	7874.9	8434.0	9340.1	10693.1	12089.8	12391.1	12713.3	12438.9	9319.3
52.5°	5678.1	5844.3	6122.8	6817.0	8109.7	9537.6	11499.5	12002.5	12264.4	12206.2	9086.6
55°	3589.3	3639.2	3807.5	4632.6	5796.5	7654.6	9857.6	11023.6	11491.2	11709.4	8872.5
57.5°	1743.7	1650.2	1856.0	2519.0	3348.2	5148.1	7602.6	9602.0	10618.3	11013.2	8406.9
60°	910.3	945.7	1026.7	1263.6	1731.3	2672.8	4738.6	6399.2	7951.8	8558.7	6372.2
62.5°	754.4	766.9	820.9	939.4	1151.4	1538.0	2419.2	3119.6	4054.9	4601.5	3624.6
65°	640.1	646.4	704.6	783.5	918.6	1082.8	1244.9	1303.1	1577.5	1619.0	1288.6
67.5°	534.1	540.4	602.7	677.5	764.8	808.5	850.0	845.9	877.1	864.6	862.5
70°	411.5	417.7	482.2	561.2	604.8	579.9	708.7	737.8	750.3	760.7	777.3
72.5°	297.2	309.7	359.6	415.7	392.8	451.0	584.0	627.7	644.3	650.5	671.3
75°	216.1	220.3	232.8	216.1	249.4	313.8	411.5	465.6	486.3	492.6	523.7
77.5°	95.6	97.7	99.8	124.7	160.0	195.4	245.2	288.9	318.0	326.3	334.6
80°	49.9	52.0	64.4	85.2	114.3	143.4	178.7	203.7	222.4	224.5	232.8
82.5°	31.2	33.3	45.7	60.3	81.1	106.0	130.9	151.7	166.3	168.3	170.4
85°	14.5	18.7	27.0	37.4	54.0	68.6	70.7	60.3	64.4	66.5	62.4
87.5°	4.2	6.2	8.3	6.2	8.3	8.3	10.4	12.5	12.5	12.5	14.5
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°	2338.1	2338.1	2338.1	2338.1	2338.1	2338.1	2338.1	2338.1	2338.1	2338.1	2338.1
2.5°	2375.6	2356.9	2284.1	2257.1	2186.4	2198.9	2161.5	2159.4	2151.1	2149.0	2146.9
5°	2433.8	2375.6	2288.3	2221.8	2182.3	2178.1	2151.1	2151.1	2159.4	2165.6	2151.1
7.5°	2529.4	2462.8	2315.3	2252.9	2217.6	2211.4	2192.7	2178.1	2196.8	2190.6	2174.0
10°	2639.5	2523.1	2367.2	2313.2	2255.0	2240.5	2240.5	2246.7	2215.5	2225.9	2209.3
12.5°	2762.1	2606.3	2433.8	2371.4	2302.8	2294.5	2290.3	2244.6	2261.2	2252.9	2211.4
15°	2918.0	2701.9	2519.0	2413.0	2354.8	2317.4	2263.3	2255.0	2244.6	2223.8	2205.1
17.5°	3086.4	2805.8	2558.5	2425.4	2338.1	2311.1	2269.6	2225.9	2194.7	2198.9	2184.3
20°	3229.8	2901.4	2573.0	2437.9	2325.7	2273.7	2209.3	2182.3	2149.0	2146.9	2144.9
22.5°	3400.2	3030.2	2593.8	2404.7	2288.3	2234.2	2190.6	2142.8	2119.9	2090.8	2105.4
25°	3603.9	3080.1	2597.9	2385.9	2261.2	2165.6	2142.8	2090.8	2082.5	2040.9	2049.3
27.5°	3751.4	3107.1	2564.7	2327.8	2198.9	2126.2	2084.6	2047.2	2032.6	2001.5	1993.1
30°	3948.9	3148.7	2494.0	2255.0	2136.5	2055.5	2030.6	2022.2	1980.7	1947.4	1943.3
32.5°	4173.3	3175.7	2448.3	2180.2	2072.1	2009.8	2022.2	1982.7	1930.8	1901.7	1893.4
35°	4352.1	3186.1	2334.0	2095.0	2028.5	1989.0	1974.4	1966.1	1891.3	1864.3	1843.5
37.5°	4624.3	3163.3	2238.4	2034.7	1980.7	1966.1	1953.7	1897.5	1812.3	1772.8	1743.7
40°	4942.3	3157.0	2115.8	1949.5	1934.9	1951.6	1914.2	1826.9	1708.4	1664.8	1644.0
42.5°	5247.8	3200.7	2038.9	1903.8	1885.1	1891.3	1839.3	1708.4	1650.2	1625.3	1592.0
45°	5759.1	3292.1	1912.1	1833.1	1824.8	1820.6	1758.3	1621.1	1587.9	1556.7	1550.5
47.5°	6220.5	3231.8	1831.0	1760.4	1768.7	1745.8	1612.8	1569.2	1531.7	1500.6	1490.2
50°	6247.5	3088.4	1716.7	1704.2	1706.3	1666.8	1540.1	1511.0	1463.2	1442.4	1427.8
52.5°	6106.2	2853.6	1610.7	1614.9	1621.1	1556.7	1450.7	1429.9	1390.4	1361.3	1353.0
55°	5709.2	2487.8	1506.8	1523.4	1540.1	1417.4	1384.2	1332.2	1301.0	1259.5	1261.6
57.5°	5029.6	2003.5	1361.3	1388.3	1423.7	1288.6	1263.6	1199.2	1153.5	1120.2	1116.1
60°	3371.1	1425.7	1143.1	1153.5	1232.5	1178.4	1176.3	1111.9	1049.6	1020.5	1003.8
62.5°	1989.0	1089.1	987.2	976.8	974.7	1005.9	1057.9	1035.0	954.0	897.8	914.5
65°	1041.3	941.5	918.6	883.3	862.5	854.2	893.7	904.1	850.0	789.8	785.6
67.5°	875.0	875.0	856.3	843.8	814.7	779.4	754.4	721.2	712.9	696.2	675.5
70°	796.0	816.8	810.6	781.5	756.5	717.0	652.6	598.6	546.6	527.9	540.4
72.5°	694.2	715.0	715.0	700.4	667.2	606.9	544.5	482.2	438.5	405.3	401.1
75°	534.1	544.5	569.5	552.8	509.2	471.8	407.4	342.9	301.4	270.2	264.0
77.5°	340.8	357.5	357.5	355.4	324.2	288.9	247.3	201.6	170.4	147.6	141.3
80°	226.5	236.9	245.2	236.9	216.1	189.1	158.0	126.8	103.9	85.2	81.1
82.5°	166.3	178.7	185.0	176.7	155.9	135.1	112.2	89.4	66.5	52.0	47.8
85°	64.4	66.5	74.8	89.4	87.3	85.2	68.6	49.9	37.4	27.0	24.9
87.5°	16.6	14.5	16.6	16.6	14.5	12.5	12.5	12.5	12.5	6.2	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)