

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: P527746

Luminaire Tested: **GALN-SA2D-735-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527746
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-735-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12155 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

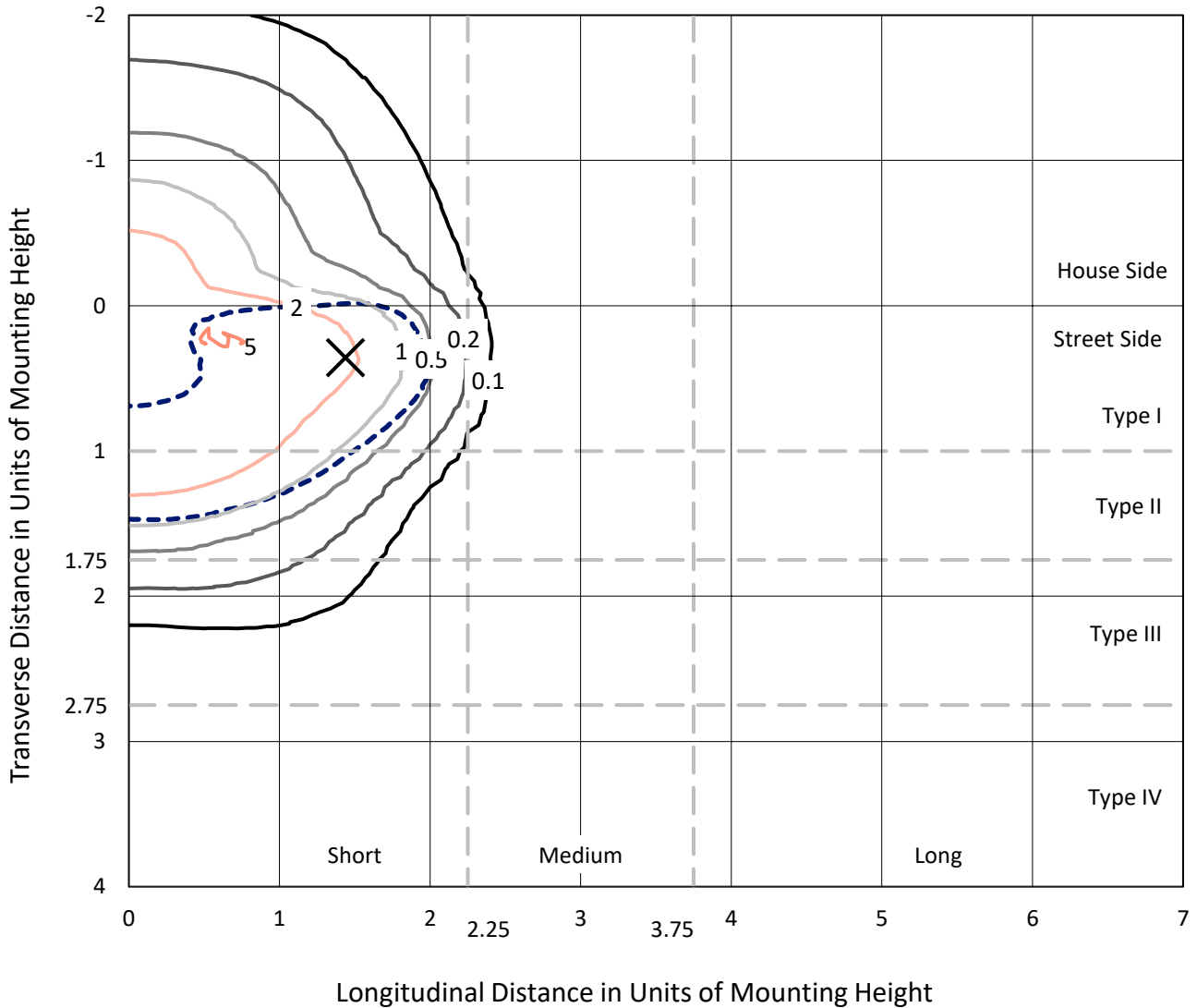
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

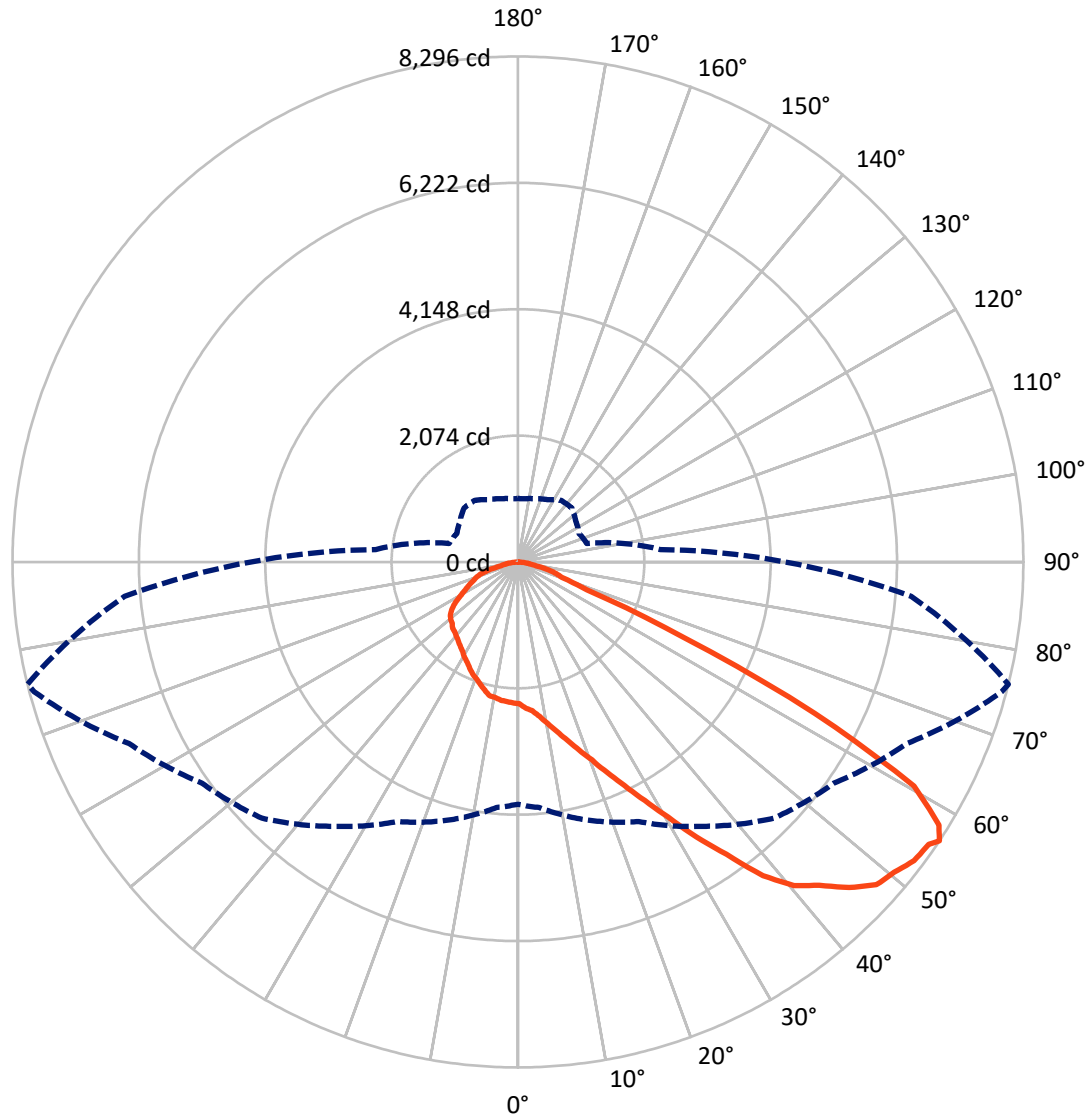
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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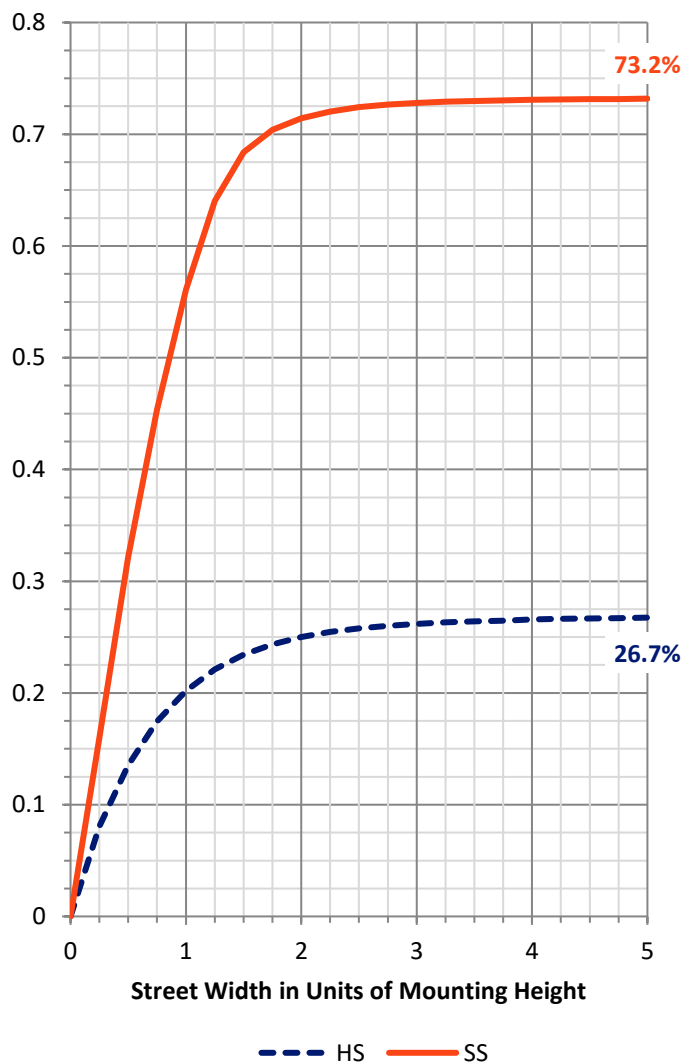
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3268.1	0.0	3268.1
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	8886.9	0.0	8886.9
	% Fixture	73.1	0.0	73.1
Total	Lumens	12155.0	0.0	12155.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.6	1.9
10°-20°	724.5	6.0
20°-30°	1267.1	10.4
30°-40°	1983.9	16.3
40°-50°	2886.0	23.7
50°-60°	3171.9	26.1
60°-70°	1415.8	11.6
70°-80°	408.9	3.4
80°-90°	66.3	0.5
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°	12155.0	100.0
0°-180°	12155.0	100.0

Coefficient of Utilization



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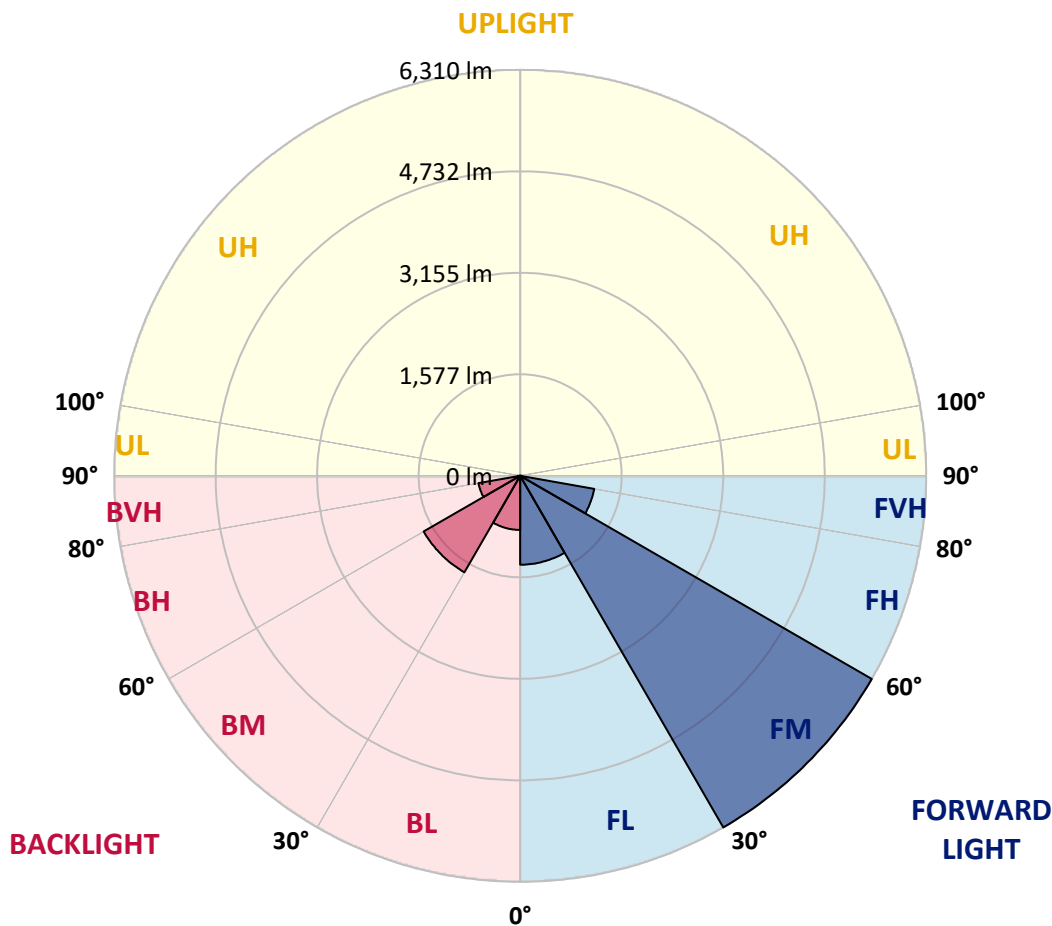
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1381.3	11.4			
FM (30°-60°)	6309.9	51.9			
FH (60°-80°)	1167.2	9.6			G1/1800
FVH (80°-90°)	28.6	0.2			G1/100
BL (0°-30°)	840.9	6.9	B2/1000		
BM (30°-60°)	1731.8	14.2	B2/2500		
BH (60°-80°)	657.6	5.4	B2/1000		G2/1000
BVH (80°-90°)	37.8	0.3			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°	75°	76°	85°
0°	2325.7	2325.7	2325.7	2325.7	2325.7	2325.7	2325.7	2325.7	2325.7	2325.7	2325.7
2.5°	2562.1	2521.1	2517.9	2506.9	2513.2	2484.8	2454.9	2415.5	2374.5	2399.8	2339.9
5°	2741.7	2686.5	2708.6	2670.8	2675.5	2637.7	2576.2	2530.5	2480.1	2450.2	2407.6
7.5°	2804.7	2809.4	2825.2	2818.9	2787.4	2787.4	2746.4	2666.0	2577.8	2560.5	2489.6
10°	2889.8	2891.4	2874.0	2878.8	2922.9	2902.4	2866.2	2831.5	2718.0	2697.6	2571.5
12.5°	2919.7	2891.4	2919.7	2944.9	2996.9	3025.3	3017.4	2992.2	2870.9	2856.7	2672.4
15°	2924.5	2907.1	2930.8	2987.5	3033.2	3152.9	3212.8	3195.5	3034.8	3036.3	2785.8
17.5°	2902.4	2926.0	2935.5	2984.3	3089.9	3201.8	3375.1	3398.7	3266.4	3245.9	2929.2
20°	2932.3	2915.0	2927.6	2971.7	3112.0	3286.9	3513.8	3669.8	3483.8	3469.6	3077.3
22.5°	3047.4	3023.7	3020.6	3048.9	3149.8	3331.0	3660.3	3940.8	3748.5	3756.4	3261.7
25°	3137.2	3149.8	3138.8	3137.2	3200.2	3397.2	3854.1	4263.8	4107.8	4062.1	3479.1
27.5°	3291.6	3321.5	3299.5	3329.4	3315.2	3496.4	3992.8	4621.5	4495.4	4434.0	3676.1
30°	3505.9	3521.6	3501.2	3501.2	3458.6	3635.1	4118.8	4994.9	4942.9	4859.4	3907.7
32.5°	3787.9	3811.6	3770.6	3747.0	3740.7	3841.5	4345.7	5363.6	5451.9	5380.9	4214.9
35°	4161.4	4147.2	4098.3	4076.3	3991.2	4158.2	4682.9	5787.5	6019.1	5893.0	4586.8
37.5°	4490.7	4468.6	4465.5	4342.6	4363.1	4500.1	4969.7	6108.9	6569.0	6532.8	4979.1
40°	4797.9	4818.4	4851.5	4782.2	4750.7	4901.9	5303.7	6354.7	6996.0	6981.8	5281.7
42.5°	5127.3	5108.4	5166.7	5108.4	5061.1	5275.4	5666.1	6524.9	7371.0	7254.4	5598.4
45°	5604.7	5544.8	5565.3	5570.0	5535.4	5614.1	5815.8	6647.8	7634.2	7621.6	5830.0
47.5°	6003.3	6004.9	5970.3	5943.5	5837.9	5916.7	5982.9	6725.0	7936.7	7916.2	5919.8
50°	6151.5	6131.0	6231.8	6290.1	6296.4	6135.7	6113.6	6767.5	8095.8	8006.0	6009.6
52.5°	5618.9	5637.8	5796.9	6143.6	6343.7	6361.0	6266.5	6855.8	8160.4	8141.5	6082.1
55°	4522.2	4613.6	4875.2	5275.4	5749.7	6271.2	6431.9	6947.2	8195.1	8179.4	6403.6
56°	3975.4	4046.3	4386.7	4700.3	5295.9	5945.0	6327.9	7044.9	8221.9	8296.0	6479.2
57.5°	3200.2	3282.1	3526.4	3882.5	4585.2	5324.2	6041.2	6925.1	8117.9	8146.3	6534.3
60°	2001.1	2009.0	2302.1	2536.8	3031.6	3753.3	4610.4	6025.4	7512.8	7471.9	5869.4
62.5°	1312.5	1314.1	1580.4	1772.6	1998.0	2163.4	2713.3	3995.9	5543.2	5470.8	4178.7
65°	921.8	942.3	1148.7	1405.5	1496.9	1410.2	1392.9	2106.7	3096.2	2992.2	2245.3
67.5°	674.4	676.0	858.7	1134.5	1266.8	1073.0	871.4	1028.9	1225.9	1222.7	1039.9
70°	445.9	464.8	605.1	847.7	999.0	861.9	712.2	735.8	780.0	780.0	773.7
72.5°	260.0	277.3	370.3	537.3	560.9	538.9	564.1	630.3	658.6	657.1	649.2
75°	148.1	156.0	176.5	223.7	278.9	329.3	414.4	477.4	505.8	523.1	502.6
77.5°	86.7	91.4	104.0	127.6	145.0	178.1	225.3	269.4	307.3	302.5	305.7
80°	45.7	45.7	58.3	75.6	100.8	126.1	149.7	174.9	195.4	200.1	204.8
82.5°	26.8	28.4	37.8	55.1	72.5	89.8	115.0	132.4	151.3	152.8	156.0
85°	14.2	15.8	23.6	36.2	48.8	55.1	56.7	53.6	58.3	55.1	63.0
87.5°	4.7	4.7	7.9	6.3	6.3	7.9	9.5	9.5	12.6	12.6	12.6
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°	2325.7	2325.7	2325.7	2325.7	2325.7	2325.7	2325.7	2325.7	2325.7	2325.7	2325.7
2.5°	2338.3	2338.3	2311.5	2261.1	2253.2	2232.7	2213.8	2212.3	2198.1	2185.5	2179.2
5°	2382.4	2333.6	2294.2	2248.5	2194.9	2169.7	2141.3	2109.8	2097.2	2109.8	2108.3
7.5°	2432.8	2391.9	2273.7	2188.6	2127.2	2102.0	2070.4	2037.4	2040.5	2040.5	2018.4
10°	2481.7	2426.5	2237.5	2128.7	2038.9	2020.0	2002.7	2015.3	2031.1	2034.2	2020.0
12.5°	2563.6	2439.2	2220.1	2068.9	2012.1	1971.2	1982.2	2016.9	2050.0	2040.5	2051.5
15°	2625.1	2450.2	2141.3	2007.4	1936.5	1955.4	1994.8	2018.4	2073.6	2067.3	2078.3
17.5°	2685.0	2456.5	2064.1	1925.5	1895.5	1947.5	1977.5	2045.2	2062.6	2100.4	2114.6
20°	2807.9	2469.1	1985.4	1875.1	1865.6	1925.5	1977.5	2009.0	2046.8	2079.9	2079.9
22.5°	2870.9	2462.8	1933.4	1808.9	1838.8	1876.6	1923.9	1977.5	1977.5	2009.0	2010.6
25°	2949.7	2437.6	1851.4	1777.4	1799.4	1835.7	1889.2	1870.3	1890.8	1890.8	1916.0
27.5°	3039.5	2384.0	1780.5	1720.6	1764.8	1804.2	1812.0	1799.4	1775.8	1772.6	1763.2
30°	3112.0	2317.8	1728.5	1701.7	1738.0	1760.0	1734.8	1708.0	1667.1	1663.9	1641.9
32.5°	3211.2	2235.9	1663.9	1654.5	1695.4	1697.0	1689.1	1648.2	1588.3	1563.1	1537.9
35°	3378.3	2188.6	1615.1	1629.3	1641.9	1637.1	1623.0	1578.8	1519.0	1507.9	1498.5
37.5°	3501.2	2154.0	1564.6	1582.0	1593.0	1599.3	1556.8	1507.9	1509.5	1487.4	1481.1
40°	3639.8	2131.9	1523.7	1531.6	1533.1	1553.6	1501.6	1478.0	1489.0	1474.8	1484.3
42.5°	3817.9	2138.2	1481.1	1474.8	1504.8	1496.9	1471.7	1440.2	1446.5	1403.9	1410.2
45°	3912.4	2180.7	1455.9	1427.6	1460.7	1459.1	1426.0	1396.1	1358.2	1276.3	1279.5
47.5°	3975.4	2191.8	1396.1	1377.1	1411.8	1432.3	1394.5	1325.1	1271.6	1213.3	1199.1
50°	4040.0	2212.3	1367.7	1328.3	1342.5	1391.3	1344.1	1277.9	1225.9	1173.9	1181.8
52.5°	4096.8	2251.6	1312.5	1254.2	1279.5	1333.0	1307.8	1227.5	1170.7	1128.2	1115.6
55°	4348.9	2339.9	1219.6	1143.9	1203.8	1271.6	1257.4	1159.7	1098.2	1076.2	1073.0
56°	4388.3	2343.0	1170.7	1106.1	1161.3	1251.1	1233.8	1129.8	1074.6	1039.9	1041.5
57.5°	4394.6	2305.2	1101.4	1071.5	1118.7	1221.2	1199.1	1106.1	1030.5	999.0	989.5
60°	3866.7	1799.4	1014.7	995.8	1051.0	1129.8	1121.9	1041.5	956.4	920.2	937.5
62.5°	2636.1	1318.8	947.0	943.8	972.2	1049.4	1028.9	956.4	885.5	861.9	850.9
65°	1534.7	1000.6	880.8	868.2	891.8	932.8	947.0	871.4	797.3	781.5	776.8
67.5°	906.0	827.2	795.7	775.2	767.4	792.6	803.6	759.5	685.4	663.4	682.3
70°	757.9	735.8	737.4	702.8	683.8	666.5	657.1	617.7	556.2	527.9	520.0
72.5°	653.9	644.5	638.2	606.6	589.3	549.9	508.9	469.6	423.9	400.2	401.8
75°	499.5	496.3	499.5	483.7	453.8	422.3	384.5	334.0	299.4	269.4	275.7
77.5°	297.8	307.3	312.0	305.7	293.1	264.7	241.1	208.0	174.9	151.3	148.1
80°	204.8	212.7	220.6	212.7	200.1	179.6	154.4	129.2	105.6	93.0	89.8
82.5°	156.0	163.9	168.6	160.7	145.0	122.9	105.6	88.2	69.3	56.7	53.6
85°	56.7	64.6	63.0	75.6	81.9	78.8	67.8	52.0	39.4	28.4	26.8
87.5°	15.8	14.2	15.8	15.8	15.8	14.2	12.6	12.6	12.6	7.9	6.3
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)