

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: P650765

Luminaire Tested: **GALN-SA2C-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650765
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-840-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10379.6 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

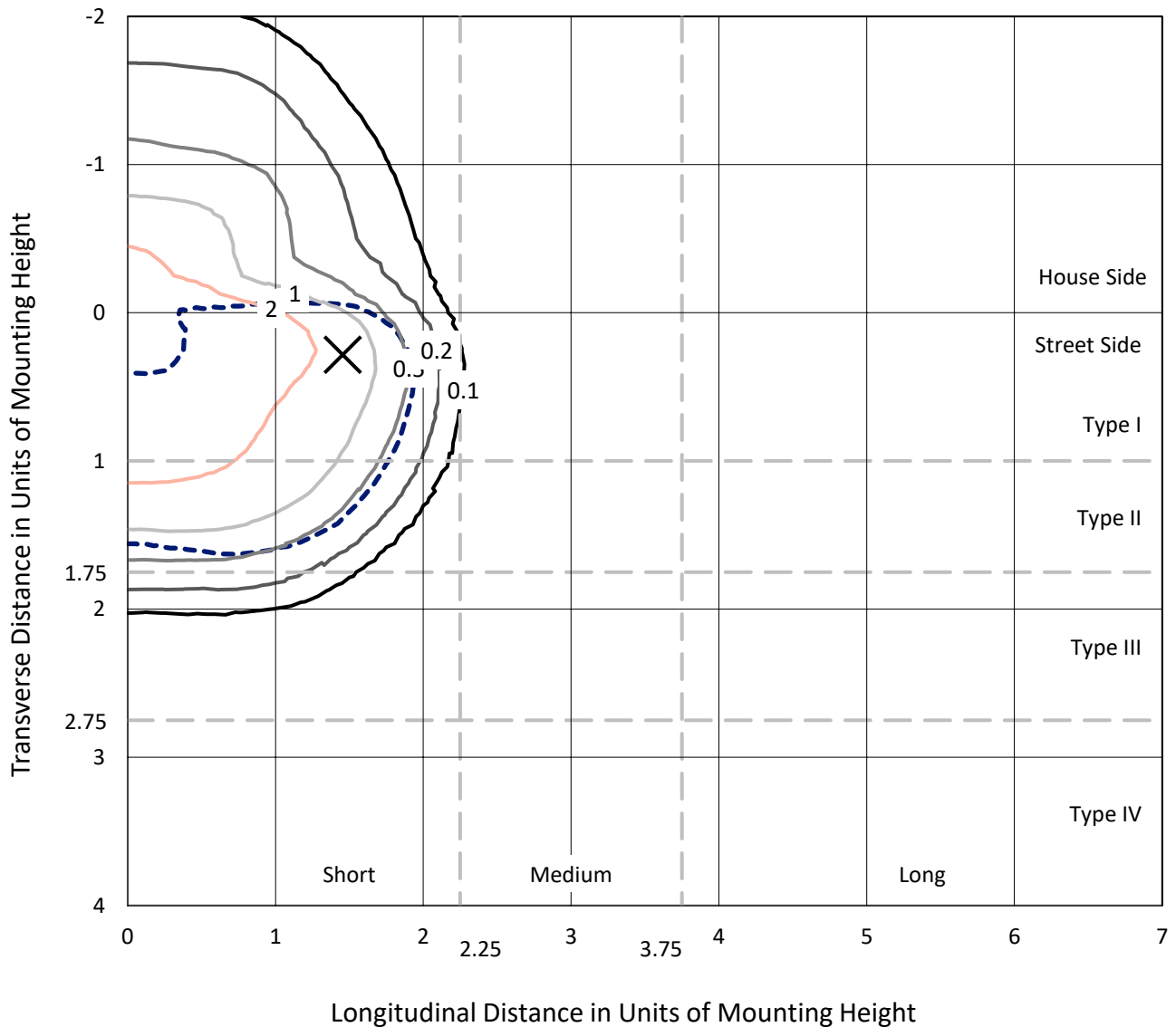
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

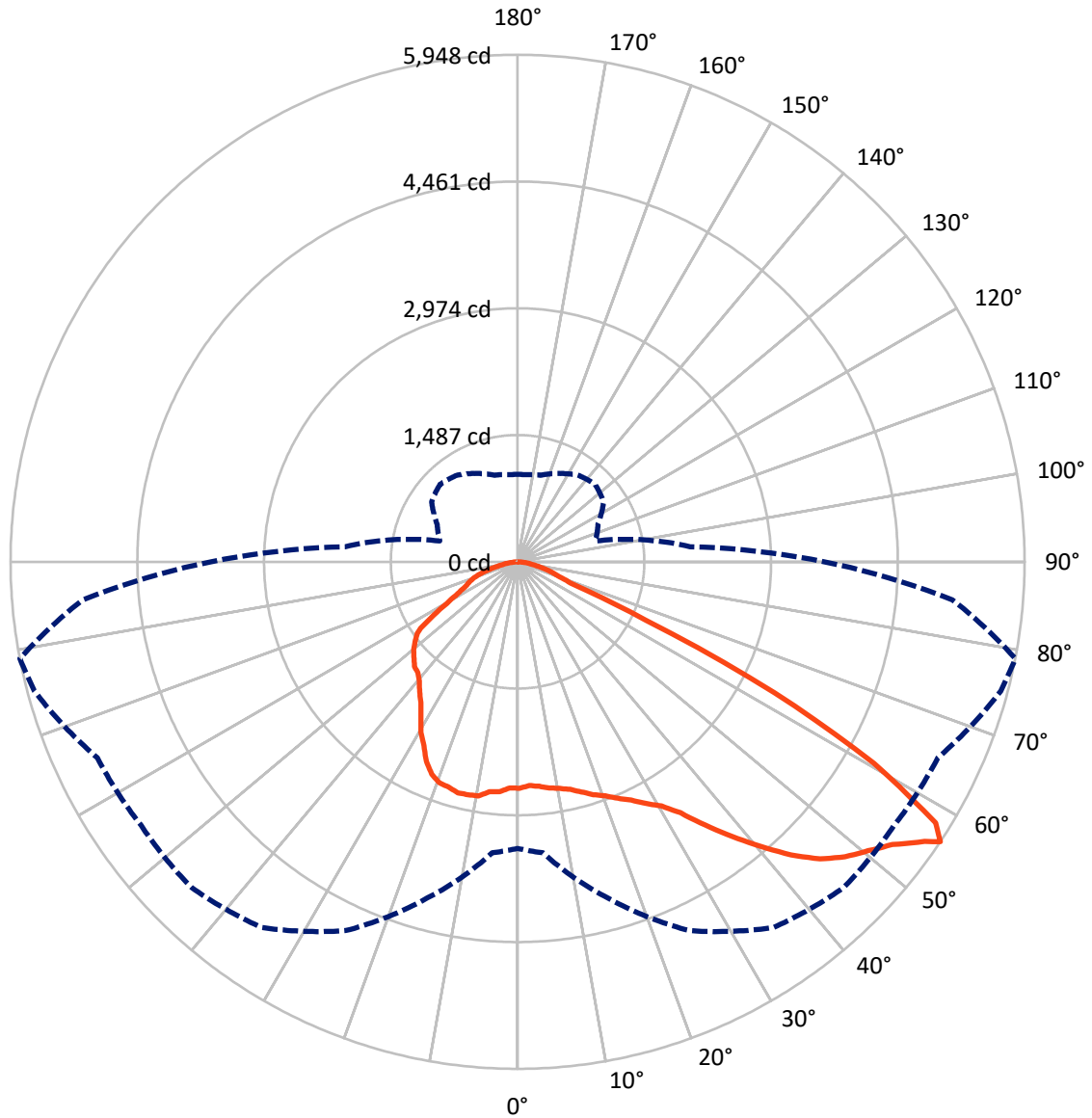
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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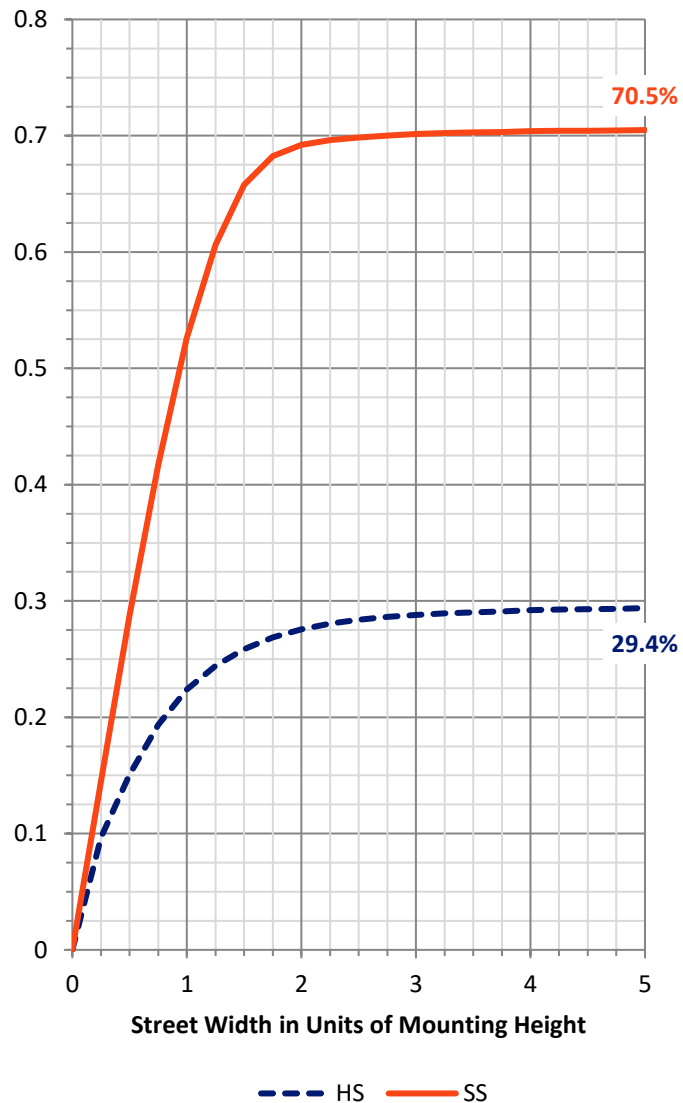
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3065.3	0.0	3065.3
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	7314.3	0.0	7314.3
	% Fixture	70.5	0.0	70.5
Total	Lumens	10379.6	0.0	10379.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.5	2.3
10°-20°	660.8	6.4
20°-30°	1130.5	10.9
30°-40°	1732.6	16.7
40°-50°	2341.6	22.6
50°-60°	2689.5	25.9
60°-70°	1225.9	11.8
70°-80°	302.3	2.9
80°-90°	54.9	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°	10379.6	100.0
0°-180°	10379.6	100.0

Coefficient of Utilization



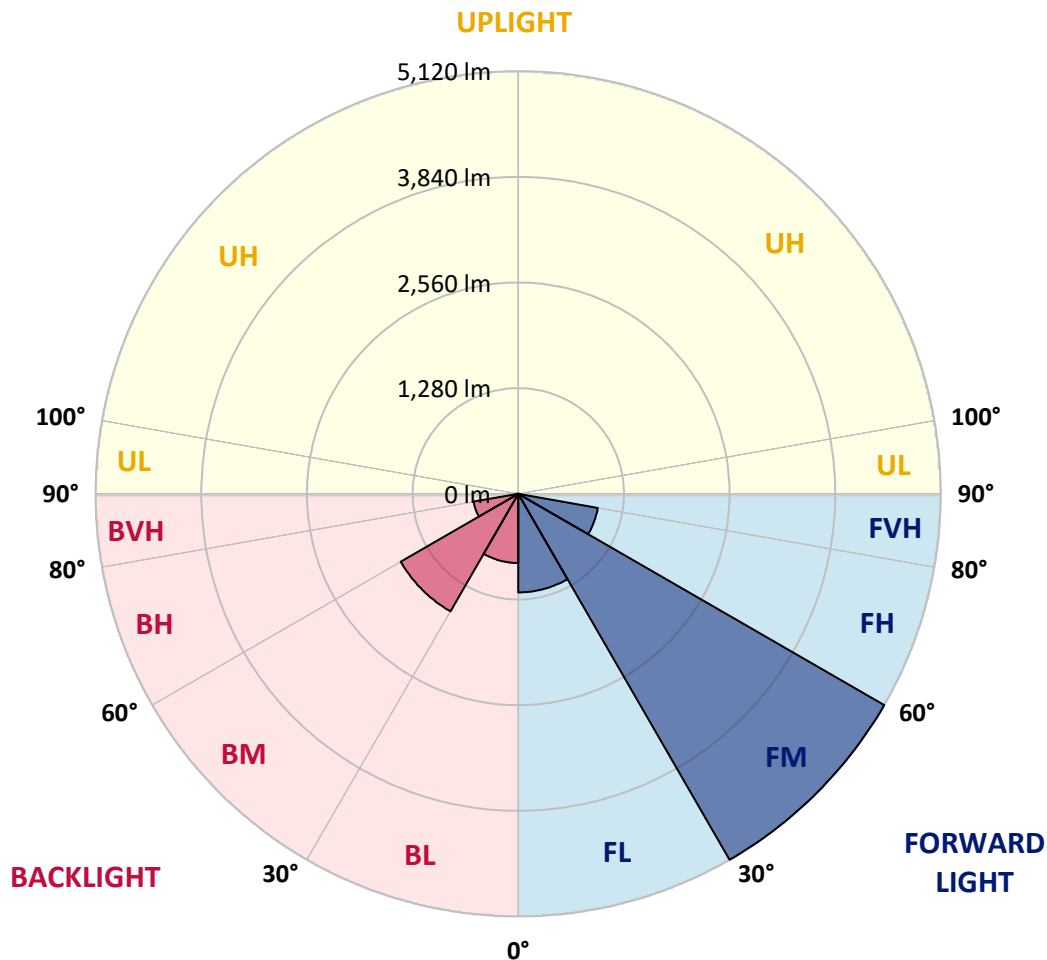
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1194.3	11.5			
FM (30°-60°)	5119.5	49.3			
FH (60°-80°)	978.6	9.4			G1/1800
FVH (80°-90°)	21.9	0.2			G1/100
BL (0°-30°)	838.5	8.1	B2/1000		
BM (30°-60°)	1644.2	15.8	B2/2500		
BH (60°-80°)	549.6	5.3	B2/1000		G2/1000
BVH (80°-90°)	33.0	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°	79°	85°
0°	2655.7	2655.7	2655.7	2655.7	2655.7	2655.7	2655.7	2655.7	2655.7	2655.7	2655.7
2.5°	2526.4	2520.0	2535.5	2547.1	2561.3	2579.4	2588.5	2593.6	2638.9	2627.3	2662.2
5°	2472.1	2455.3	2467.0	2476.0	2500.5	2522.6	2547.1	2585.9	2627.3	2645.4	2688.1
7.5°	2424.3	2415.3	2412.7	2419.1	2452.8	2481.2	2523.8	2580.8	2648.0	2677.7	2702.3
10°	2345.5	2332.5	2351.9	2394.6	2403.6	2463.1	2512.2	2593.6	2651.8	2703.6	2776.0
12.5°	2310.5	2297.6	2301.5	2326.0	2389.4	2446.3	2504.5	2596.3	2719.1	2739.8	2836.8
15°	2366.2	2353.2	2357.1	2350.6	2411.4	2441.1	2532.9	2648.0	2765.6	2800.5	2904.0
17.5°	2492.8	2494.2	2477.3	2463.1	2448.8	2512.2	2575.6	2679.0	2783.7	2871.7	2949.2
20°	2734.6	2692.0	2658.3	2578.2	2556.1	2583.3	2663.5	2763.0	2857.5	2929.9	3017.8
22.5°	2920.8	2924.7	2876.8	2744.9	2697.1	2708.8	2777.2	2858.7	2962.2	3013.9	3114.7
25°	3191.0	3163.8	3112.1	3007.4	2900.1	2909.2	2959.6	3033.3	3061.7	3097.9	3207.8
27.5°	3438.0	3445.7	3343.6	3245.3	3112.1	3086.3	3176.8	3189.7	3141.9	3210.4	3247.9
30°	3688.8	3682.3	3615.1	3500.1	3369.5	3374.6	3414.7	3351.4	3285.4	3322.9	3348.8
32.5°	3948.7	3875.0	3872.4	3768.9	3669.5	3621.6	3572.4	3603.4	3501.3	3509.1	3484.5
35°	4156.9	4167.2	4107.7	4034.0	3984.9	3900.8	3766.4	3822.0	3802.6	3793.5	3687.5
37.5°	4308.1	4268.1	4297.8	4273.2	4226.7	4121.9	3982.3	4035.3	4044.4	4088.4	3965.5
40°	4432.2	4415.4	4494.3	4507.3	4475.0	4248.6	3997.9	4155.5	4291.3	4387.0	4240.9
42.5°	4491.7	4527.9	4610.7	4710.3	4637.9	4396.1	4078.0	4247.4	4549.9	4701.2	4502.0
45°	4571.9	4525.3	4648.2	4830.5	4831.8	4520.2	4155.5	4371.5	4751.6	4971.4	4680.5
47.5°	4490.4	4513.7	4640.4	4871.8	4931.4	4650.7	4365.0	4547.4	4974.0	5169.2	4846.0
50°	4308.1	4354.7	4586.1	4826.6	5006.3	4789.1	4605.5	4737.4	5179.6	5328.2	4873.2
52.5°	4118.0	4143.9	4506.0	4861.5	5039.9	4967.5	4927.4	4999.8	5430.4	5508.0	4906.8
55°	3600.9	3723.7	4240.9	4846.0	5204.2	5289.5	5258.4	5364.5	5714.8	5792.5	5090.4
56°	3361.7	3426.3	4081.9	4773.6	5236.5	5407.1	5391.7	5439.5	5866.1	5947.6	5118.8
57.5°	2919.5	2924.7	3480.6	4452.9	5115.0	5442.0	5426.6	5464.1	5836.4	5780.8	4869.3
60°	1827.0	1907.1	2368.7	3425.1	4349.5	5049.0	5136.9	4835.7	4921.0	4803.4	3788.4
62.5°	946.5	934.8	1241.2	2002.8	2887.2	3615.1	3696.5	3682.3	3550.4	3378.5	2474.7
65°	472.0	474.5	649.1	991.7	1479.2	1892.9	2120.4	2145.1	1794.6	1651.1	1174.0
67.5°	342.6	355.6	466.8	606.4	696.9	779.7	955.5	937.4	709.8	674.9	625.8
70°	266.3	278.0	378.9	462.9	420.2	420.2	457.7	473.2	505.5	519.7	536.6
72.5°	193.9	203.0	289.6	319.3	275.4	296.1	342.6	378.9	412.4	417.6	437.0
75°	133.2	141.0	190.1	175.9	165.5	204.3	250.9	284.4	309.0	321.9	333.6
77.5°	86.6	89.2	108.6	91.8	106.1	131.9	162.9	191.3	215.9	226.2	228.8
80°	38.8	42.6	46.5	58.2	73.7	94.4	116.4	139.6	155.2	159.0	166.8
82.5°	22.0	22.0	28.4	41.4	54.3	68.5	84.0	100.8	118.9	122.9	121.5
85°	11.6	11.6	16.8	24.6	33.6	40.1	38.8	40.1	42.6	49.1	47.9
87.5°	3.9	3.9	5.1	5.1	6.5	7.7	6.5	9.1	11.6	11.6	11.6
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°	2655.7	2655.7	2655.7	2655.7	2655.7	2655.7	2655.7	2655.7	2655.7	2655.7	2655.7
2.5°	2651.8	2663.5	2648.0	2681.6	2681.6	2675.1	2642.8	2653.2	2660.9	2660.9	2667.4
5°	2702.3	2698.4	2708.8	2668.7	2644.1	2635.0	2582.0	2556.1	2534.2	2532.9	2513.5
7.5°	2730.7	2720.4	2716.5	2686.7	2578.2	2512.2	2398.4	2332.5	2318.3	2267.8	2287.3
10°	2776.0	2795.4	2776.0	2614.3	2463.1	2311.8	2200.6	2098.5	2058.3	2026.1	2006.7
12.5°	2869.1	2860.0	2747.5	2529.1	2317.0	2137.2	1971.7	1864.4	1824.4	1796.0	1793.3
15°	2948.0	2902.7	2730.7	2394.6	2089.4	1898.1	1762.3	1686.0	1668.0	1670.5	1682.2
17.5°	2975.1	2944.1	2642.8	2254.9	1920.0	1695.0	1631.7	1620.1	1636.9	1656.3	1661.5
20°	3017.8	2968.6	2606.6	2064.8	1710.6	1568.4	1564.5	1605.9	1636.9	1665.3	1669.2
22.5°	3107.0	2982.9	2488.9	1885.1	1567.0	1530.9	1568.4	1603.3	1651.1	1674.3	1653.7
25°	3132.8	2951.8	2323.4	1669.2	1476.5	1507.6	1547.7	1595.5	1629.1	1642.1	1651.1
27.5°	3154.8	2904.0	2099.7	1525.7	1448.1	1506.3	1547.7	1587.7	1605.9	1617.5	1627.8
30°	3216.9	2889.8	1905.8	1430.0	1430.0	1480.4	1533.5	1543.8	1568.4	1582.6	1600.7
32.5°	3247.9	2791.5	1706.7	1369.2	1411.9	1493.4	1497.2	1516.7	1517.9	1529.5	1510.2
35°	3329.4	2721.6	1521.8	1325.2	1419.7	1480.4	1499.8	1488.2	1424.8	1393.8	1400.3
37.5°	3388.8	2686.7	1388.7	1320.1	1421.0	1494.6	1505.0	1417.1	1351.2	1299.4	1312.4
40°	3549.2	2600.1	1287.8	1311.0	1432.6	1510.2	1481.8	1386.1	1267.1	1214.1	1205.1
42.5°	3672.0	2538.1	1224.4	1300.7	1441.6	1532.1	1470.1	1324.0	1202.5	1153.3	1166.2
45°	3814.2	2523.8	1190.8	1303.3	1457.2	1543.8	1455.9	1276.1	1146.9	1127.4	1123.6
47.5°	3864.6	2421.7	1154.6	1281.3	1453.2	1539.9	1408.0	1240.0	1126.2	1128.8	1139.1
50°	3780.6	2317.0	1127.4	1236.1	1427.4	1505.0	1333.1	1192.1	1114.5	1146.9	1165.0
52.5°	3673.3	2209.6	1071.9	1175.3	1374.4	1450.7	1298.2	1189.5	1102.9	1092.5	1096.4
55°	3705.6	2121.8	994.3	1092.5	1289.1	1349.9	1259.3	1165.0	1074.5	1035.7	1048.6
56°	3600.9	2031.3	943.9	1040.8	1230.9	1285.2	1240.0	1143.0	1051.2	1025.3	1025.3
57.5°	3304.8	1727.4	877.9	958.1	1108.1	1172.7	1202.5	1130.1	1025.3	980.1	981.4
60°	2437.2	1228.3	787.4	844.3	918.0	969.8	1108.1	1093.8	960.7	929.6	918.0
62.5°	1502.4	897.3	722.8	744.7	782.2	824.9	967.2	990.4	892.1	858.5	850.8
65°	841.8	686.6	673.6	682.6	700.8	722.8	802.9	854.6	787.4	735.7	733.1
67.5°	615.4	614.2	624.5	632.3	640.0	640.0	659.4	680.1	671.0	629.7	625.8
70°	546.9	550.8	558.6	559.9	562.5	553.4	537.9	531.4	541.8	515.9	510.7
72.5°	451.3	464.1	473.2	474.5	460.3	448.7	428.0	406.0	398.2	393.1	391.7
75°	346.5	355.6	359.4	358.2	353.0	336.1	311.6	289.6	275.4	259.9	267.6
77.5°	234.1	246.9	253.4	253.4	245.7	219.8	208.1	191.3	177.1	160.3	162.9
80°	164.2	173.2	183.6	182.3	169.4	156.4	139.6	124.1	112.5	99.6	98.2
82.5°	122.9	128.0	133.2	130.6	121.5	108.6	97.0	82.8	69.8	60.8	60.8
85°	44.0	47.9	58.2	60.8	65.9	65.9	55.6	46.5	37.5	31.0	31.0
87.5°	13.0	13.0	14.2	14.2	13.0	14.2	11.6	13.0	14.2	9.1	9.1
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)