

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: P647360

Luminaire Tested: **GALN-SA3D-835-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-835-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18042.7 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

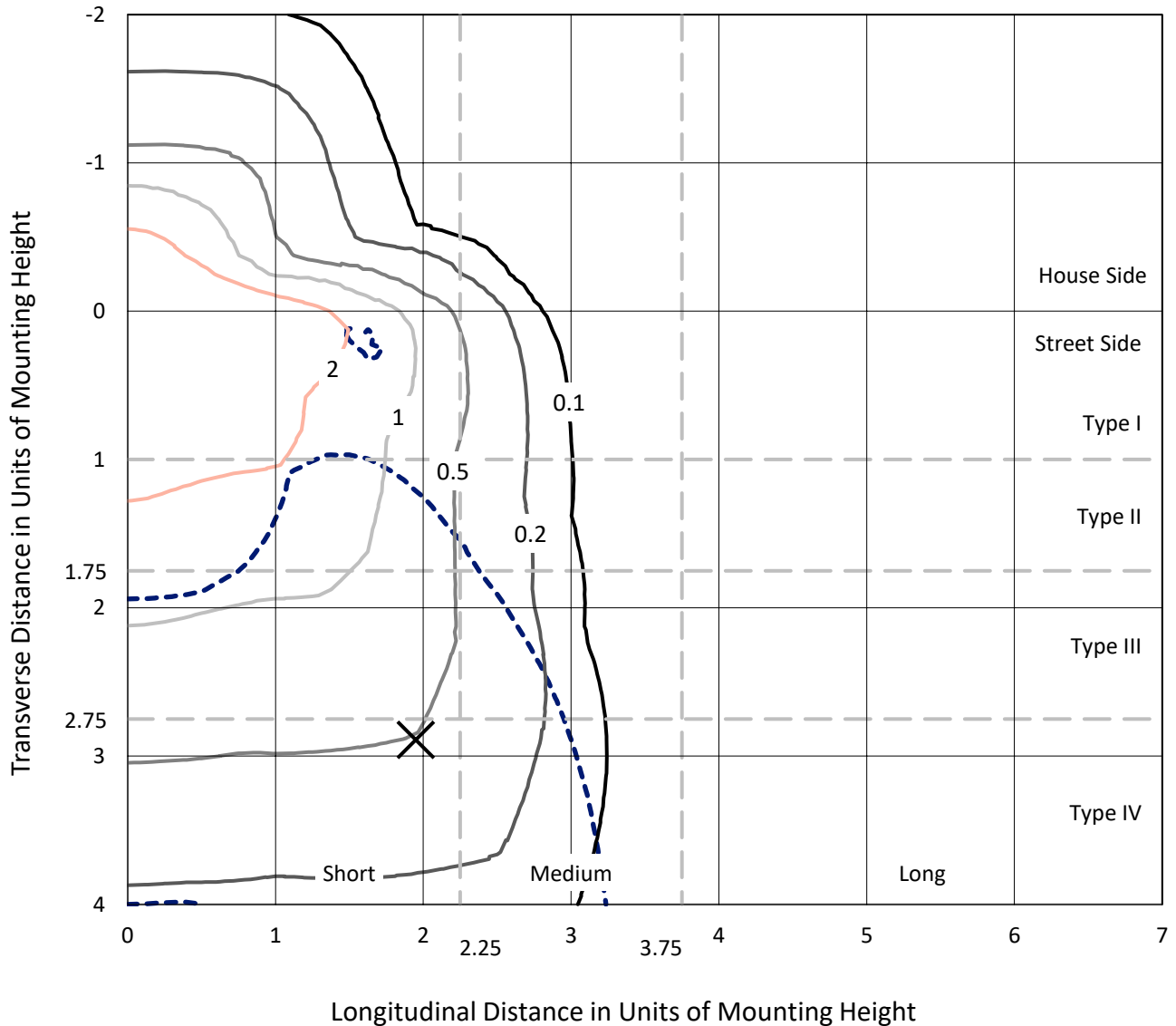
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

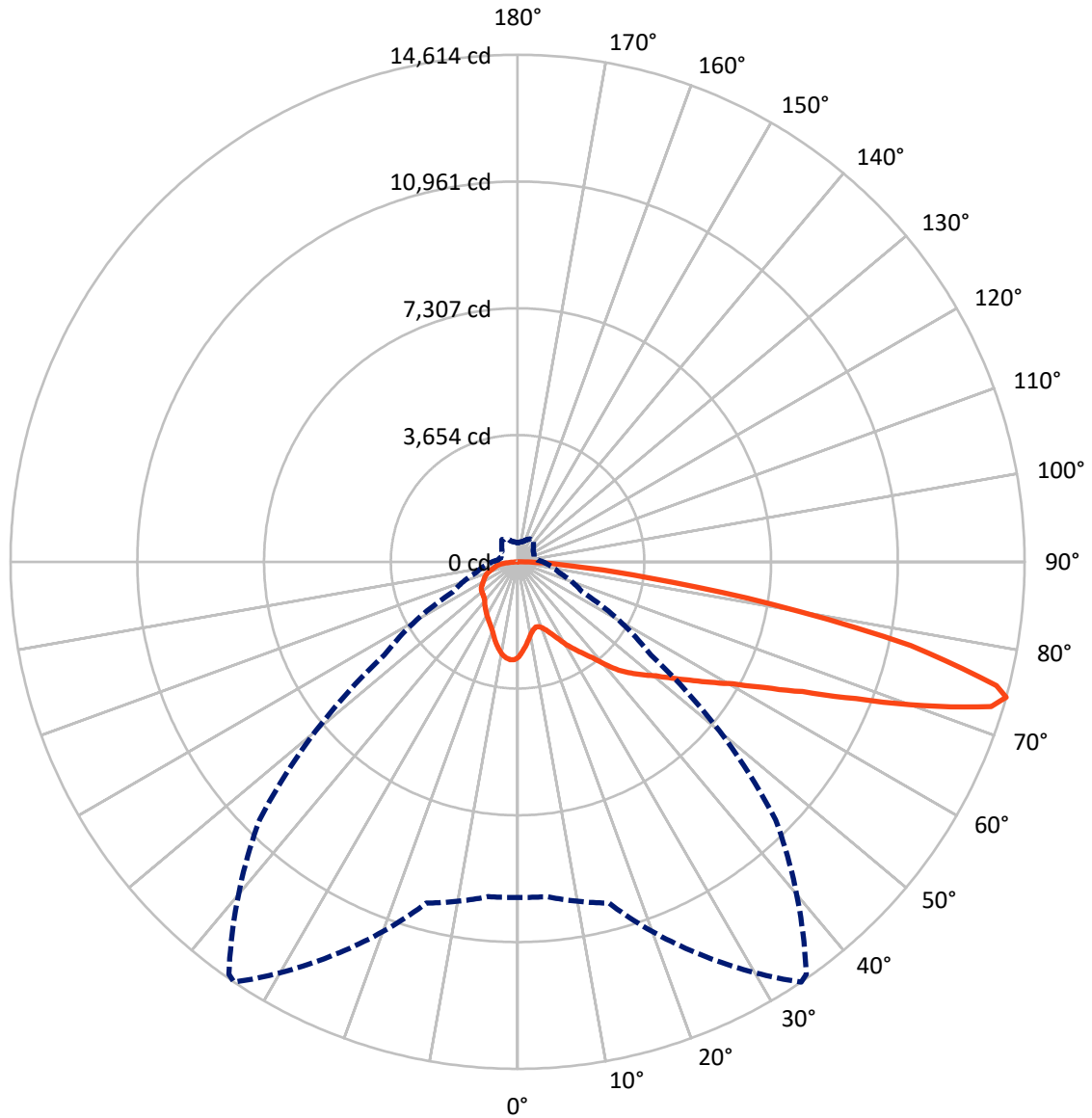
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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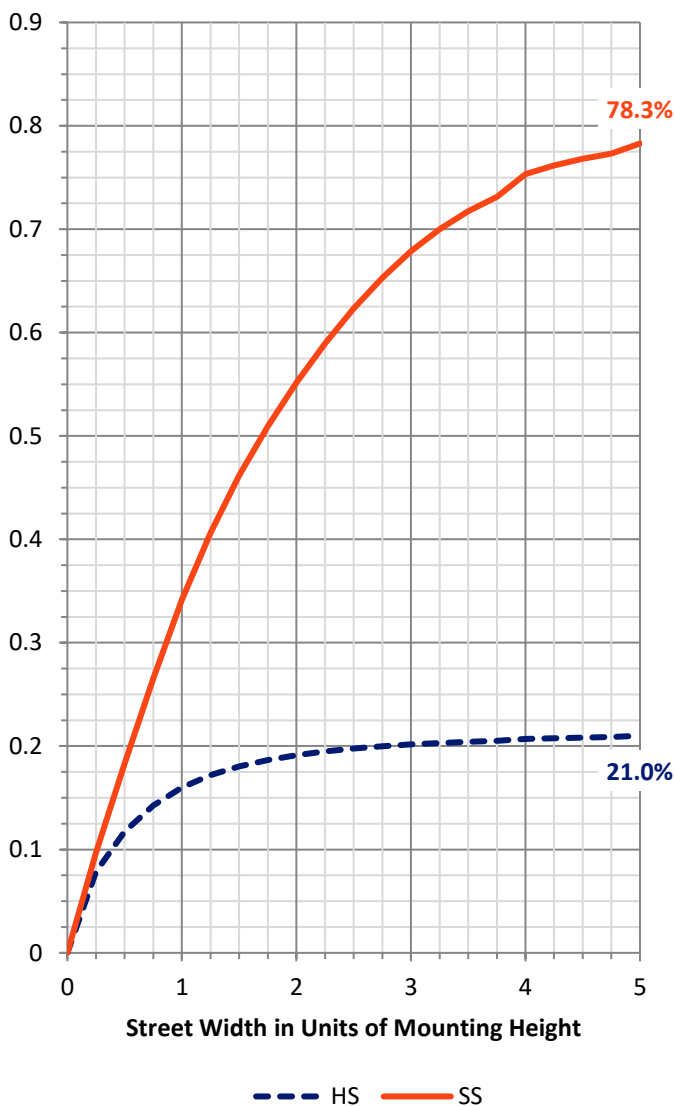
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3839.6	0.0	3839.6
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	14203.1	0.0	14203.1
	% Fixture	78.7	0.0	78.7
Total	Lumens	18042.7	0.0	18042.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.5	1.4
10°-20°	685.8	3.8
20°-30°	1130.7	6.3
30°-40°	1693.7	9.4
40°-50°	2462.2	13.6
50°-60°	3439.1	19.1
60°-70°	4305.6	23.9
70°-80°	3560.4	19.7
80°-90°	514.5	2.9
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°	18042.7	100.0
0°-180°	18042.7	100.0

Coefficient of Utilization



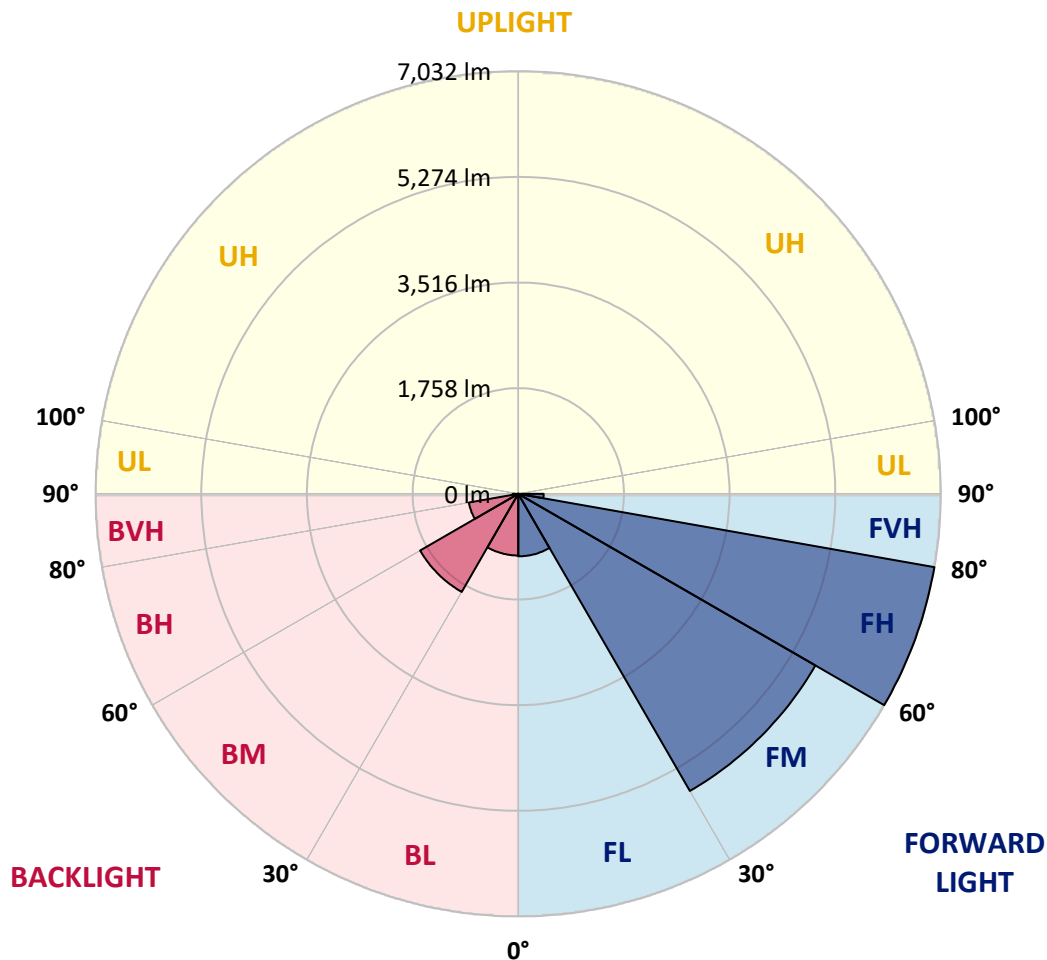
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1040.1	5.8			
FM (30°-60°)	5709.4	31.6			
FH (60°-80°)	7032.1	39.0			G3/7500
FVH (80°-90°)	421.5	2.3			G3/500
BL (0°-30°)	1027.0	5.7	B3/2500		
BM (30°-60°)	1885.6	10.5	B2/2500		
BH (60°-80°)	833.9	4.6	B2/1000		G2/1000
BVH (80°-90°)	93.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2754.8	2754.8	2754.8	2754.8	2754.8	2754.8	2754.8	2754.8	2754.8	2754.8	2754.8
2.5°	2545.8	2558.8	2565.8	2590.9	2596.8	2604.8	2625.8	2653.8	2689.8	2721.8	2749.7
5°	2334.0	2353.9	2365.9	2387.9	2430.9	2434.9	2490.9	2554.9	2627.8	2695.8	2751.8
7.5°	2133.0	2155.1	2165.0	2205.0	2262.0	2271.0	2352.9	2453.9	2575.8	2678.8	2764.8
10°	1982.1	1993.1	2015.1	2045.0	2113.1	2119.0	2226.0	2360.9	2518.8	2670.8	2786.8
12.5°	1900.1	1906.1	1911.1	1943.1	2010.1	2019.1	2131.0	2283.9	2473.9	2676.8	2822.7
15°	1912.2	1914.1	1892.1	1898.1	1952.1	1965.1	2076.0	2233.0	2445.9	2691.8	2876.7
17.5°	2013.1	2006.1	1952.1	1924.1	1962.1	1968.1	2065.1	2213.0	2432.9	2719.8	2932.6
20°	2172.0	2162.0	2069.1	2007.1	2029.1	2034.1	2101.0	2228.0	2445.9	2765.8	3019.6
22.5°	2369.9	2365.9	2225.0	2150.0	2149.0	2149.0	2184.0	2282.0	2484.9	2828.7	3110.6
25°	2646.8	2625.8	2441.9	2344.9	2318.0	2316.0	2312.0	2370.9	2534.9	2895.7	3218.5
27.5°	2930.7	2894.7	2730.8	2581.9	2523.8	2516.9	2490.9	2496.9	2598.9	2971.6	3341.5
30°	3185.6	3162.5	3008.7	2843.7	2774.7	2758.7	2686.8	2653.8	2705.8	3108.6	3537.4
32.5°	3380.4	3366.5	3246.6	3096.6	2994.7	2991.7	2886.7	2859.7	2872.7	3274.5	3761.3
35°	3538.4	3543.4	3482.4	3352.5	3235.5	3218.5	3148.6	3114.6	3076.6	3514.4	4043.2
37.5°	3754.3	3765.3	3761.3	3649.3	3506.4	3510.4	3494.5	3438.5	3337.5	3782.3	4356.1
40°	3992.2	4000.2	3999.2	3956.2	3881.3	3885.2	3879.2	3815.2	3664.4	4123.1	4703.9
42.5°	4321.1	4283.1	4184.1	4227.1	4271.1	4290.1	4331.1	4270.1	4063.1	4487.0	5030.7
45°	4688.9	4616.9	4393.0	4413.0	4575.9	4611.9	4837.8	4753.8	4496.0	4904.8	5415.5
47.5°	4920.8	4849.8	4660.9	4656.9	4872.8	4907.8	5307.6	5276.6	4889.8	5355.6	5885.3
50°	5127.7	5117.7	4904.8	4955.8	5166.7	5218.6	5819.4	5790.4	5282.6	5887.4	6397.1
52.5°	5434.6	5353.6	5183.7	5288.6	5567.5	5635.5	6327.2	6242.2	5643.5	6357.1	6893.9
55°	5572.5	5553.5	5543.5	5634.5	6017.3	6066.3	6820.9	6626.0	5951.3	6754.9	7271.7
57.5°	5941.3	5906.3	6005.3	6067.2	6547.1	6622.0	7336.7	7026.8	6221.2	7070.8	7455.6
60°	6419.1	6400.1	6491.1	6603.0	7138.8	7252.7	7924.4	7368.7	6438.1	7229.8	7354.7
62.5°	7132.8	7130.8	7113.8	7353.7	7977.4	8082.4	8599.1	7701.5	6472.1	7110.8	6832.9
65°	8156.4	8120.3	7972.4	8234.3	9020.9	9143.9	9301.8	7887.5	6267.2	6500.1	5753.4
67.5°	9226.9	9224.8	9104.9	9444.8	10519.3	10646.2	10180.4	7846.4	5698.4	5265.6	4086.2
70°	10114.5	10071.5	10224.4	11130.0	12433.4	12580.3	10949.1	7363.6	4539.0	3477.5	2427.9
72.5°	10327.4	10329.3	10647.2	12429.4	14271.6	14294.5	11225.9	5968.3	3037.6	1918.1	1214.4
74°	9671.6	9688.6	10181.4	12494.3	14614.4	14510.5	10518.3	4690.9	2054.0	1252.4	875.6
75°	8828.0	8721.1	9433.7	12061.6	14258.6	14146.6	9689.6	3764.3	1567.3	1000.5	766.6
77.5°	4719.8	4828.8	5928.3	9001.0	11583.8	11454.8	6570.1	1805.2	846.6	696.7	551.8
80°	1680.2	1853.1	2604.8	4709.9	7426.7	7466.6	3135.6	827.6	595.7	513.8	389.9
82.5°	685.7	704.7	1118.5	2090.1	3771.3	3807.3	1280.4	491.8	425.8	353.8	232.9
85°	267.9	275.9	494.8	939.6	1609.3	1714.2	442.8	259.9	261.9	202.9	118.9
87.5°	90.0	101.9	202.9	312.9	546.8	535.7	129.0	77.0	94.0	87.9	37.0
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°	2754.8	2754.8	2754.8	2754.8	2754.8	2754.8	2754.8	2754.8	2754.8	2754.8	2754.8
2.5°	2763.8	2782.8	2795.7	2809.7	2822.7	2826.7	2823.7	2832.7	2833.8	2834.7	2835.7
5°	2779.7	2805.7	2830.7	2844.7	2850.7	2845.7	2828.7	2819.7	2811.8	2805.7	2807.8
7.5°	2801.7	2838.7	2861.7	2867.7	2851.7	2828.7	2786.8	2753.7	2732.7	2718.8	2717.8
10°	2835.7	2871.7	2890.7	2873.7	2829.8	2773.8	2707.8	2645.8	2598.9	2584.8	2583.8
12.5°	2878.7	2919.7	2918.7	2868.7	2791.7	2691.8	2584.8	2512.9	2448.9	2416.9	2429.9
15°	2934.7	2965.7	2936.6	2846.8	2724.8	2587.8	2455.9	2357.9	2286.0	2252.0	2254.0
17.5°	2999.7	3026.6	2949.6	2807.8	2630.8	2454.9	2301.9	2209.0	2152.0	2127.0	2125.1
20°	3080.6	3088.6	2949.6	2739.8	2509.9	2300.0	2154.0	2089.0	2057.1	2044.1	2048.1
22.5°	3167.5	3151.6	2933.7	2643.8	2351.0	2138.1	2040.1	2011.1	1995.1	1993.1	1995.1
25°	3265.5	3220.6	2900.7	2513.9	2185.0	1998.1	1941.1	1946.1	1949.1	1949.1	1956.1
27.5°	3385.5	3295.5	2845.7	2349.9	1991.1	1868.2	1852.2	1887.2	1903.2	1906.1	1911.1
30°	3543.4	3377.5	2754.8	2145.0	1826.2	1751.2	1779.2	1826.2	1844.2	1855.2	1853.1
32.5°	3731.3	3467.4	2631.8	1940.1	1693.2	1669.3	1703.3	1751.2	1771.2	1777.2	1769.2
35°	3952.2	3569.4	2469.9	1748.2	1577.3	1591.3	1631.3	1646.3	1664.3	1664.3	1668.3
37.5°	4190.1	3651.4	2272.0	1572.3	1487.3	1538.3	1567.3	1553.3	1545.3	1535.3	1540.3
40°	4432.0	3712.4	2015.1	1398.4	1397.3	1483.3	1491.3	1451.4	1419.3	1409.4	1404.4
42.5°	4642.9	3750.3	1783.2	1263.4	1312.4	1429.4	1435.3	1371.3	1320.4	1290.4	1280.4
45°	4891.8	3794.3	1556.3	1151.5	1233.5	1386.4	1401.3	1315.4	1240.4	1177.5	1161.5
47.5°	5232.6	3894.3	1377.4	1064.5	1176.5	1359.4	1380.4	1269.4	1170.5	1088.5	1075.5
50°	5617.5	4031.2	1238.5	1005.5	1132.5	1335.4	1361.4	1222.4	1105.5	1014.5	1004.5
52.5°	5970.3	4105.1	1118.5	952.6	1089.5	1291.4	1336.4	1188.4	1041.5	940.5	931.6
55°	6163.2	3985.2	1000.5	900.6	1030.5	1234.5	1301.4	1141.5	979.5	901.6	888.6
57.5°	6189.2	3737.3	893.6	844.6	968.6	1164.5	1236.4	1084.5	939.6	874.6	863.6
60°	5988.3	3367.4	810.6	798.7	905.6	1085.5	1163.5	1034.5	898.6	844.6	833.7
62.5°	5488.5	2965.7	752.7	756.7	841.6	1002.6	1109.5	986.6	859.6	811.7	801.6
65°	4628.9	2447.9	696.7	713.7	784.6	937.6	1060.5	946.6	820.7	786.7	777.7
67.5°	3215.5	1767.2	650.7	668.7	730.7	871.6	1003.6	903.6	776.7	758.6	744.6
70°	1780.2	1087.5	596.7	617.7	674.7	797.6	939.6	838.6	712.7	704.7	684.7
72.5°	935.6	692.7	535.7	558.7	598.8	702.7	841.6	767.7	649.7	615.8	589.8
74°	730.7	567.8	494.8	518.7	545.8	646.7	783.6	716.7	604.7	564.8	544.7
75°	636.7	505.7	459.8	490.8	514.7	608.7	738.7	680.7	579.7	541.8	523.7
77.5°	449.8	378.8	375.8	412.8	425.8	533.8	665.7	619.7	516.8	476.8	459.8
80°	315.9	283.8	297.9	320.9	338.9	471.8	617.7	535.7	423.8	376.9	370.8
82.5°	205.9	185.9	212.9	233.9	239.9	347.8	498.8	406.8	308.9	250.9	232.9
85°	95.0	92.9	121.9	118.9	117.9	169.9	295.9	237.9	177.9	133.0	125.0
87.5°	24.0	23.0	30.0	25.0	30.0	26.0	27.0	7.0	1.0	0.0	0.0
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)