

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: P647787

Luminaire Tested: **GALN-SA2A-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647787
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-SA2A-835-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 615mA 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: 6327.5 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

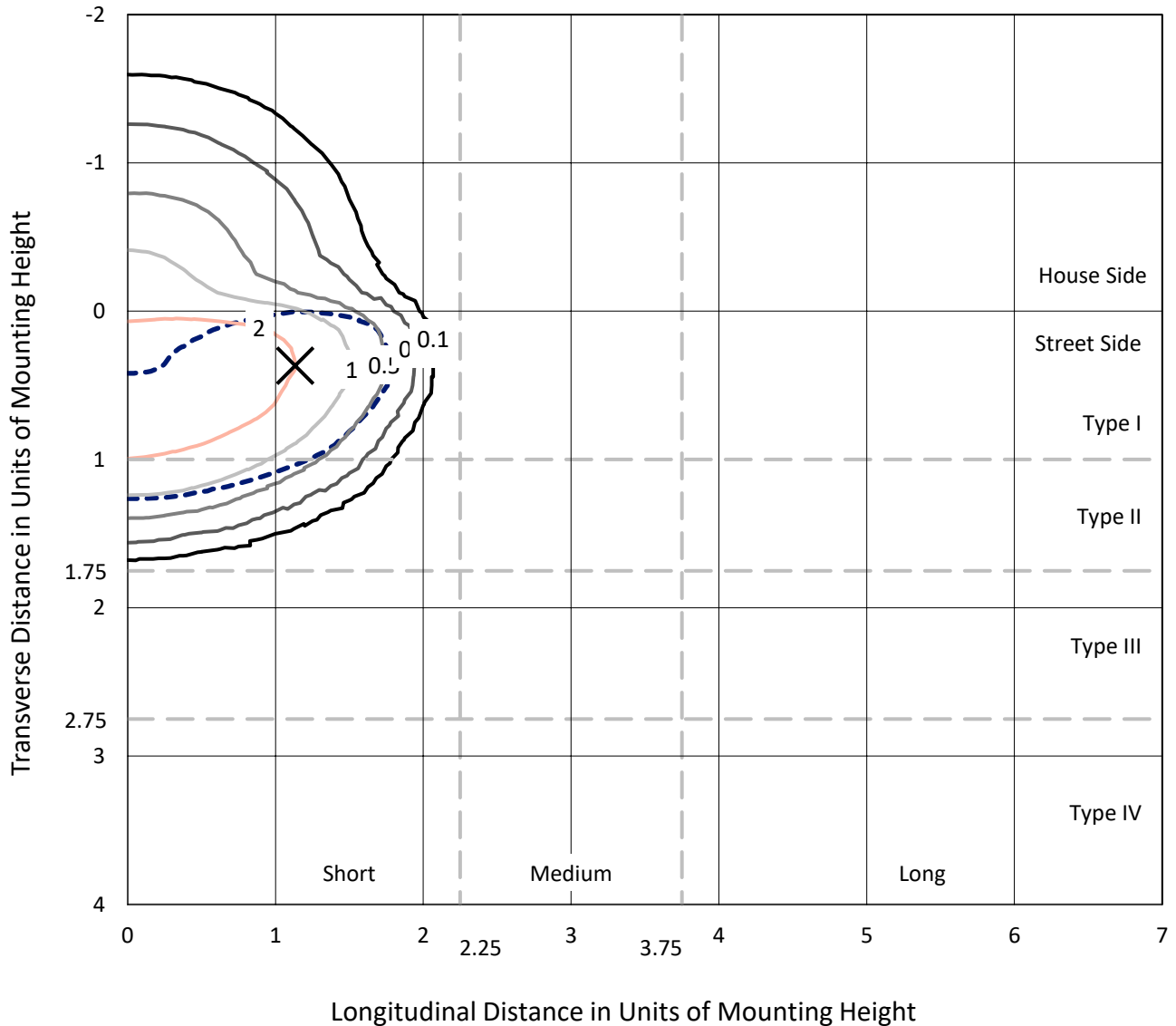
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

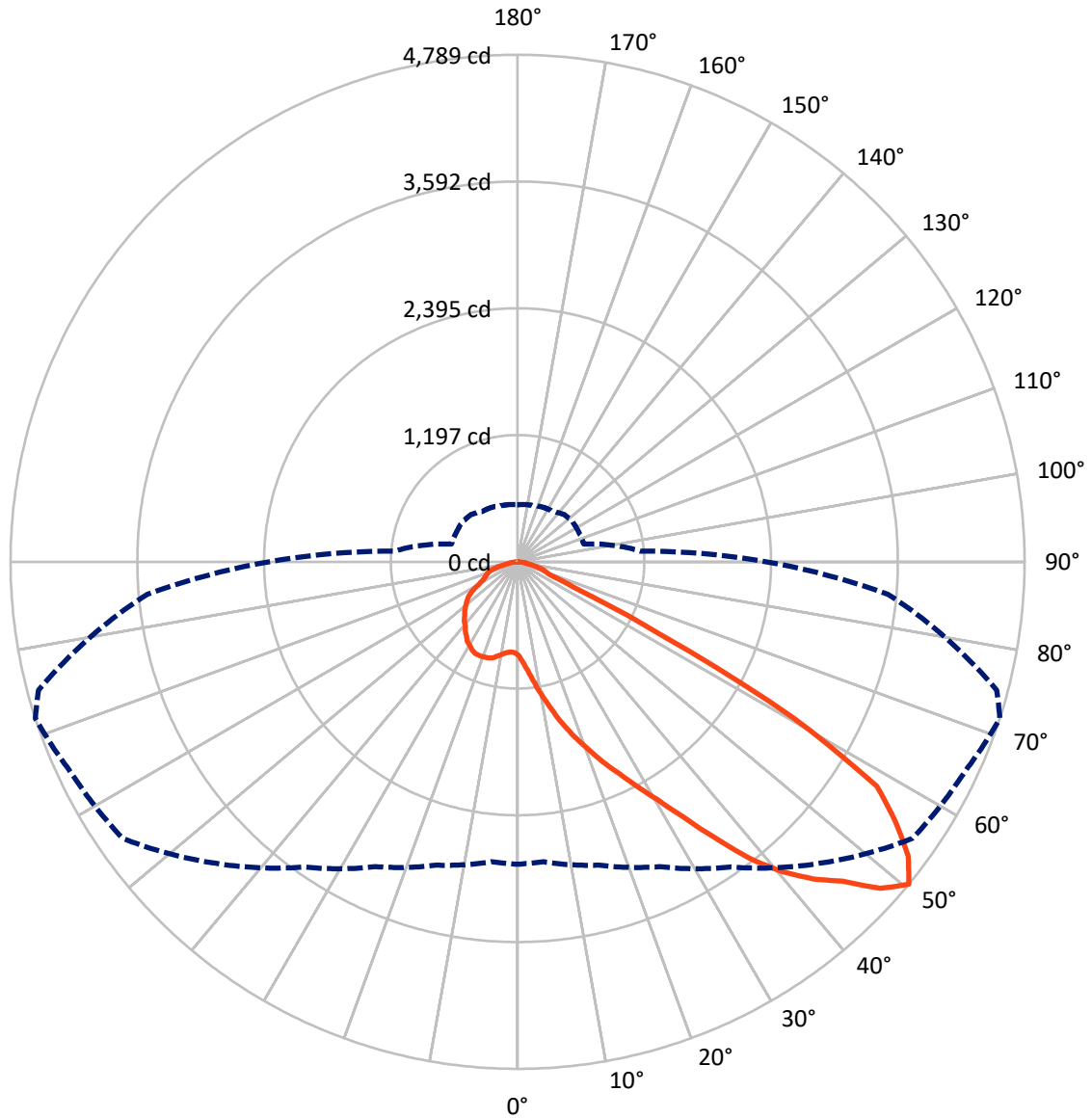
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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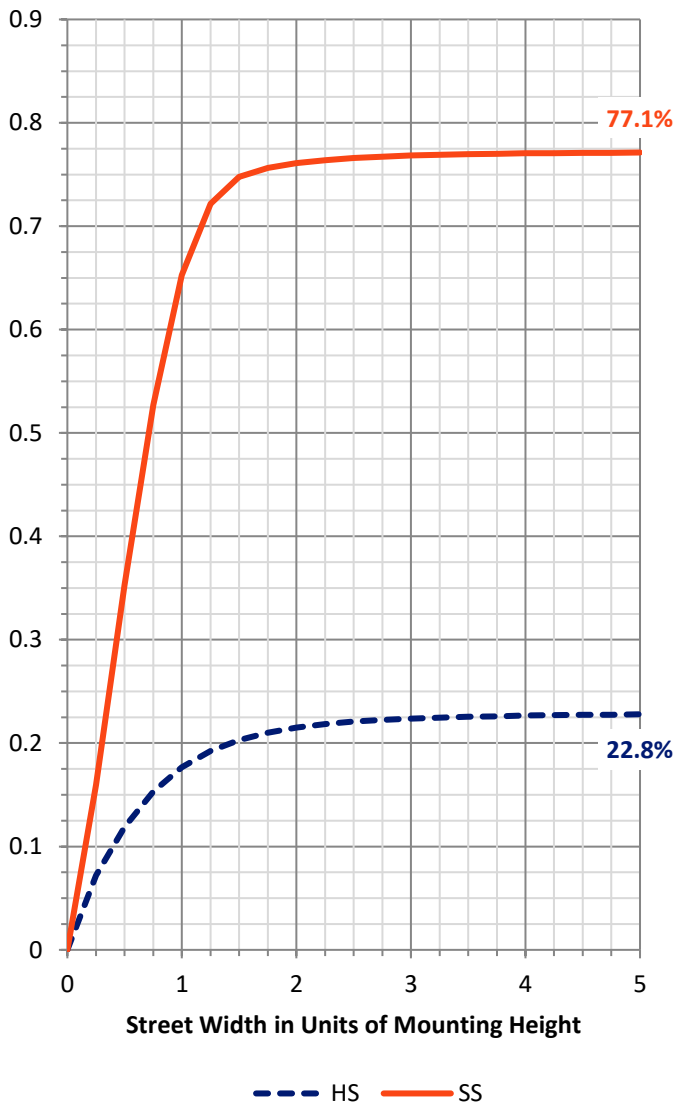
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1449.7	0.0	1449.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	4877.8	0.0	4877.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	6327.5	0.0	6327.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	1.6
10°-20°	387.3	6.1
20°-30°	751.0	11.9
30°-40°	1244.1	19.7
40°-50°	1740.8	27.5
50°-60°	1468.6	23.2
60°-70°	447.6	7.1
70°-80°	157.0	2.5
80°-90°	27.3	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°	6327.5	100.0
0°-180°	6327.5	100.0

Coefficient of Utilization

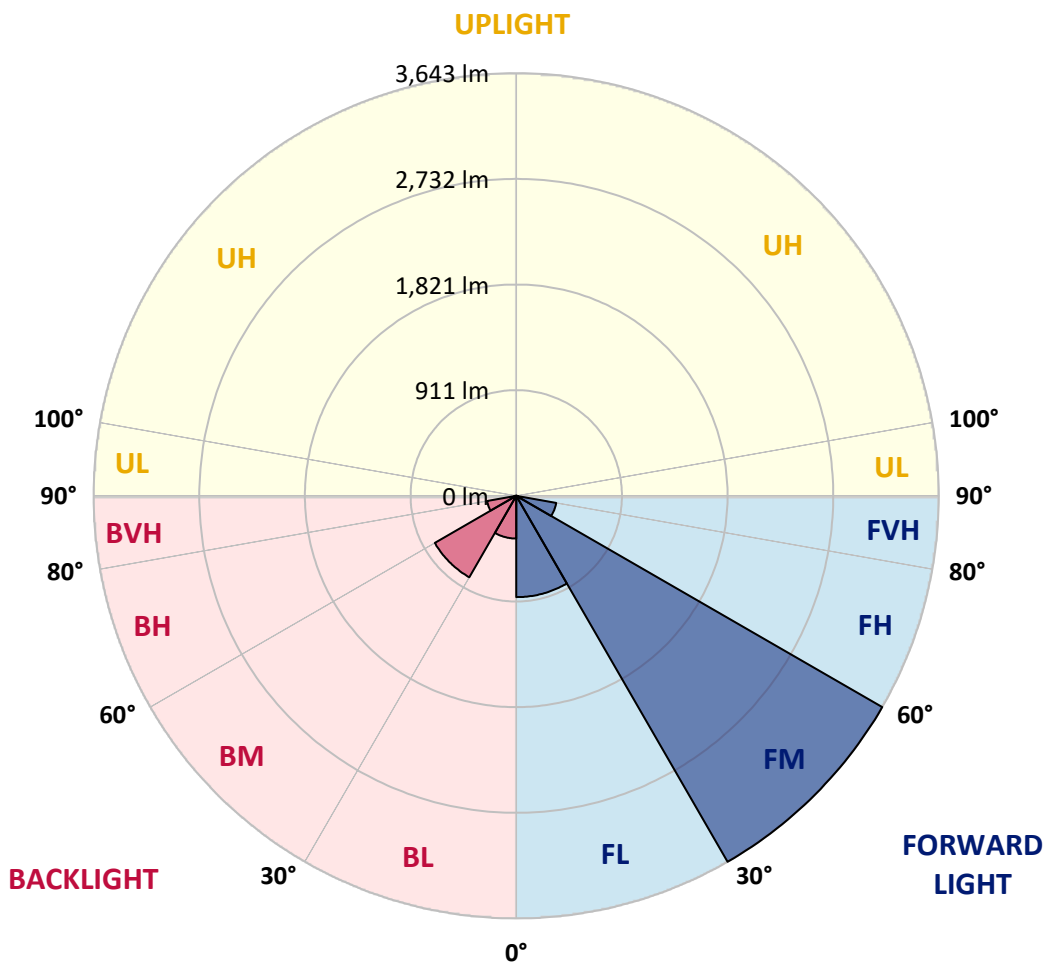


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	873.4	13.8			
FM (30°-60°)	3642.9	57.6			
FH (60°-80°)	349.3	5.5			G0/660
FVH (80°-90°)	12.2	0.2			G1/100
BL (0°-30°)	368.5	5.8	B1/500		
BM (30°-60°)	810.7	12.8	B1/1000		
BH (60°-80°)	255.4	4.0	B1/500		G1/500
BVH (80°-90°)	15.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8
2.5°	1132.9	1125.9	1104.7	1097.7	1072.6	1027.2	1011.6	965.4	945.8	927.8	906.6
5°	1432.8	1399.9	1397.6	1357.6	1299.7	1266.0	1165.8	1098.5	1036.6	1005.3	947.4
7.5°	1623.9	1624.6	1624.6	1591.8	1545.6	1460.2	1370.2	1248.8	1155.6	1109.4	1010.8
10°	1805.5	1789.9	1781.2	1778.1	1746.8	1663.8	1567.5	1417.2	1289.5	1235.5	1058.5
12.5°	1933.9	1920.6	1940.2	1930.0	1907.3	1853.3	1762.5	1591.0	1431.2	1358.4	1135.3
15°	1995.0	2004.4	2020.1	2048.2	2038.1	2017.7	1917.5	1769.5	1583.9	1501.7	1203.4
17.5°	2089.0	2063.1	2081.9	2117.2	2145.3	2135.9	2078.8	1898.7	1735.0	1634.0	1295.0
20°	2154.7	2139.9	2149.3	2190.0	2211.1	2264.4	2234.6	2067.8	1879.9	1773.4	1403.1
22.5°	2342.7	2320.7	2290.2	2296.5	2304.3	2341.9	2348.9	2253.4	2048.2	1935.5	1505.6
25°	2574.3	2554.0	2518.0	2481.2	2458.5	2451.4	2475.7	2399.0	2209.5	2092.9	1616.0
27.5°	2829.6	2795.2	2772.4	2696.5	2635.4	2626.0	2614.3	2572.8	2400.5	2274.5	1740.5
30°	3077.8	3050.4	3019.9	2898.5	2835.1	2824.9	2767.0	2778.7	2608.0	2467.9	1881.5
32.5°	3265.7	3268.1	3198.4	3106.8	3047.3	2993.3	2972.1	3005.8	2874.2	2761.5	2038.9
35°	3417.6	3424.7	3358.1	3275.1	3210.9	3248.5	3239.1	3254.8	3192.1	3054.3	2222.1
37.5°	3565.6	3530.4	3459.1	3419.2	3385.5	3447.4	3527.3	3540.6	3552.3	3390.2	2435.0
40°	3589.9	3593.0	3551.5	3579.7	3537.4	3630.6	3816.2	3799.0	3846.7	3705.0	2666.0
42.5°	3555.4	3562.5	3578.9	3618.9	3720.7	3832.6	4108.2	4037.7	4095.6	3969.6	2890.7
45°	3499.1	3470.1	3490.5	3642.4	3818.5	4067.5	4375.2	4320.4	4301.6	4195.9	3158.5
47.5°	3229.7	3259.5	3322.9	3510.0	3774.7	4108.2	4564.7	4552.1	4608.5	4534.1	3402.0
50°	2856.2	2844.5	2966.6	3177.3	3518.6	4028.3	4554.5	4668.0	4789.4	4686.0	3510.8
52.5°	2139.1	2201.7	2306.6	2568.1	3055.1	3593.0	4332.1	4521.6	4620.2	4598.3	3423.1
55°	1352.2	1371.0	1434.4	1745.2	2183.7	2883.6	3713.6	4152.8	4329.0	4411.2	3342.5
57.5°	656.9	621.7	699.2	948.9	1261.3	1939.4	2864.1	3617.3	4000.1	4148.9	3167.1
60°	343.0	356.3	386.8	476.1	652.2	1006.9	1785.2	2410.7	2995.6	3224.2	2400.5
62.5°	284.2	288.9	309.3	353.9	433.8	579.4	911.3	1175.2	1527.6	1733.5	1365.5
65°	241.2	243.5	265.4	295.2	346.1	407.9	469.0	490.9	594.3	610.0	485.5
67.5°	201.2	203.6	227.1	255.3	288.1	304.6	320.2	318.7	330.4	325.7	324.9
70°	155.0	157.4	181.7	211.4	227.9	218.5	267.0	278.0	282.7	286.6	292.8
72.5°	112.0	116.7	135.5	156.6	148.0	169.9	220.0	236.5	242.7	245.1	252.9
75°	81.4	83.0	87.7	81.4	94.0	118.2	155.0	175.4	183.2	185.6	197.3
77.5°	36.0	36.8	37.6	47.0	60.3	73.6	92.4	108.8	119.8	122.9	126.1
80°	18.8	19.6	24.3	32.1	43.1	54.0	67.3	76.7	83.8	84.6	87.7
82.5°	11.7	12.5	17.2	22.7	30.5	39.9	49.3	57.2	62.6	63.4	64.2
85°	5.5	7.0	10.2	14.1	20.4	25.8	26.6	22.7	24.3	25.1	23.5
87.5°	1.6	2.3	3.1	2.3	3.1	3.1	3.9	4.7	4.7	4.7	5.5
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°	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8
2.5°	894.9	887.8	860.4	850.3	823.6	828.3	814.2	813.5	810.3	809.5	808.8
5°	916.8	894.9	862.0	836.9	822.1	820.5	810.3	810.3	813.5	815.8	810.3
7.5°	952.8	927.8	872.2	848.7	835.4	833.0	826.0	820.5	827.6	825.2	818.9
10°	994.3	950.5	891.8	871.4	849.5	844.0	844.0	846.3	834.6	838.5	832.3
12.5°	1040.5	981.8	916.8	893.3	867.5	864.4	862.8	845.6	851.8	848.7	833.0
15°	1099.3	1017.8	948.9	909.0	887.1	873.0	852.6	849.5	845.6	837.7	830.7
17.5°	1162.7	1057.0	963.8	913.7	880.8	870.6	855.0	838.5	826.8	828.3	822.9
20°	1216.7	1093.0	969.3	918.4	876.1	856.5	832.3	822.1	809.5	808.8	808.0
22.5°	1280.9	1141.5	977.1	905.9	862.0	841.6	825.2	807.2	798.6	787.7	793.1
25°	1357.6	1160.3	978.7	898.8	851.8	815.8	807.2	787.7	784.6	768.9	772.0
27.5°	1413.2	1170.5	966.1	876.9	828.3	800.9	785.3	771.3	765.8	754.0	750.9
30°	1487.6	1186.2	939.5	849.5	804.8	774.4	765.0	761.9	746.2	733.7	732.1
32.5°	1572.2	1196.3	922.3	821.3	780.7	757.2	761.9	747.0	727.4	716.4	713.3
35°	1639.5	1200.3	879.2	789.2	764.2	749.3	743.8	740.7	712.5	702.4	694.5
37.5°	1742.1	1191.6	843.2	766.6	746.2	740.7	736.0	714.9	682.8	667.9	656.9
40°	1861.9	1189.3	797.0	734.5	729.0	735.2	721.1	688.3	643.6	627.2	619.4
42.5°	1977.0	1205.7	768.1	717.2	710.2	712.5	693.0	643.6	621.7	612.3	599.8
45°	2169.6	1240.2	720.4	690.6	687.5	685.9	662.4	610.7	598.2	586.5	584.1
47.5°	2343.4	1217.5	689.8	663.2	666.3	657.7	607.6	591.2	577.1	565.3	561.4
50°	2353.6	1163.5	646.8	642.1	642.8	628.0	580.2	569.2	551.2	543.4	537.9
52.5°	2300.4	1075.0	606.8	608.4	610.7	586.5	546.5	538.7	523.8	512.9	509.7
55°	2150.8	937.2	567.7	573.9	580.2	534.0	521.5	501.9	490.2	474.5	475.3
57.5°	1894.8	754.8	512.9	523.0	536.4	485.5	476.1	451.8	434.6	422.0	420.5
60°	1269.9	537.1	430.6	434.6	464.3	444.0	443.2	418.9	395.4	384.5	378.2
62.5°	749.3	410.3	371.9	368.0	367.2	379.0	398.5	389.9	359.4	338.3	344.5
65°	392.3	354.7	346.1	332.8	324.9	321.8	336.7	340.6	320.2	297.5	296.0
67.5°	329.6	329.6	322.6	317.9	306.9	293.6	284.2	271.7	268.6	262.3	254.5
70°	299.9	307.7	305.4	294.4	285.0	270.1	245.9	225.5	205.9	198.9	203.6
72.5°	261.5	269.4	269.4	263.9	251.3	228.6	205.1	181.7	165.2	152.7	151.1
75°	201.2	205.1	214.5	208.3	191.8	177.7	153.5	129.2	113.5	101.8	99.4
77.5°	128.4	134.7	134.7	133.9	122.1	108.8	93.2	76.0	64.2	55.6	53.2
80°	85.3	89.3	92.4	89.3	81.4	71.3	59.5	47.8	39.2	32.1	30.5
82.5°	62.6	67.3	69.7	66.6	58.7	50.9	42.3	33.7	25.1	19.6	18.0
85°	24.3	25.1	28.2	33.7	32.9	32.1	25.8	18.8	14.1	10.2	9.4
87.5°	6.3	5.5	6.3	6.3	5.5	4.7	4.7	4.7	4.7	2.3	3.1
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)