

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: P527409

Luminaire Tested: **GALN-SA2B-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-830-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6014 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

Input Watts (W): 82
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



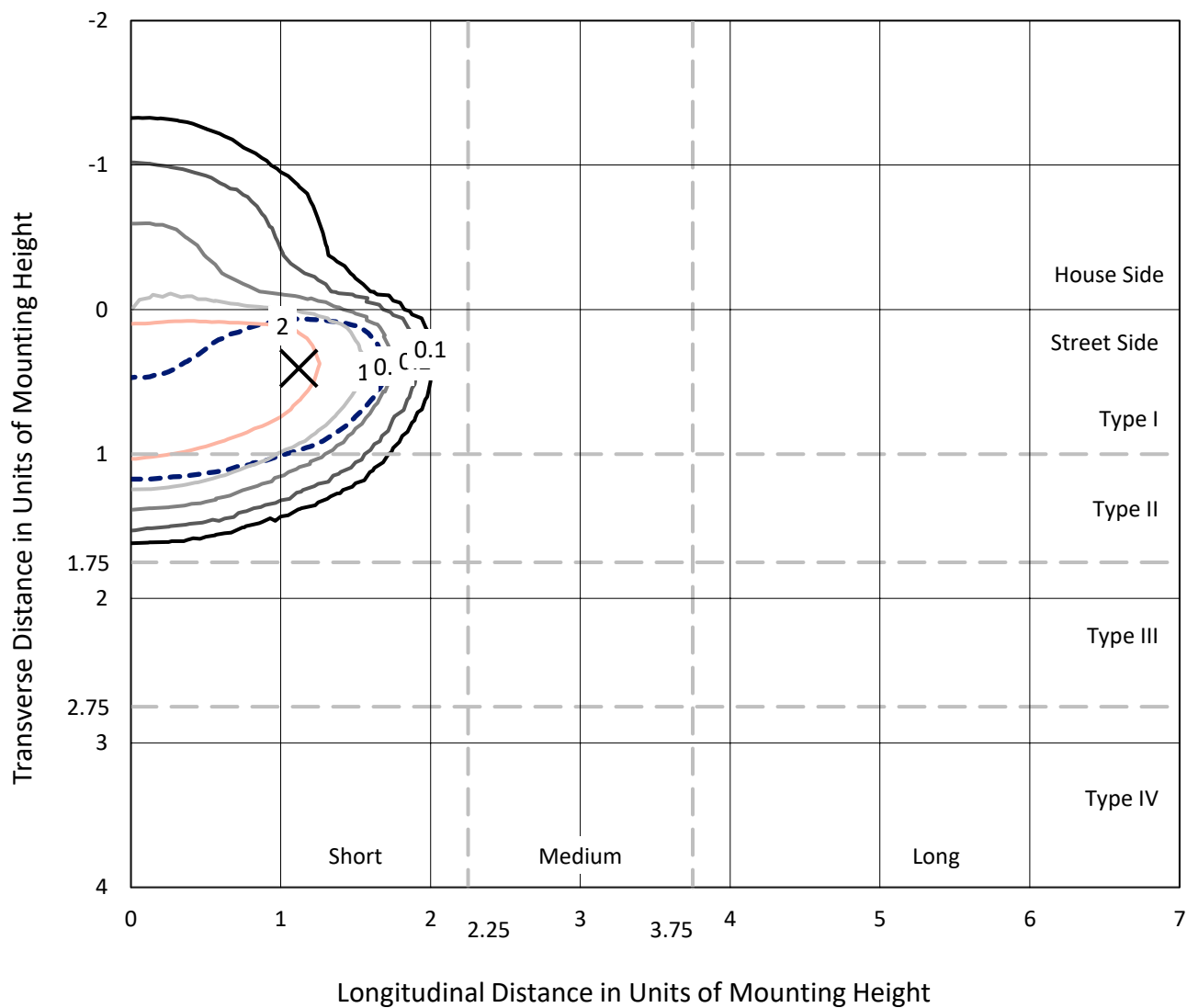
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



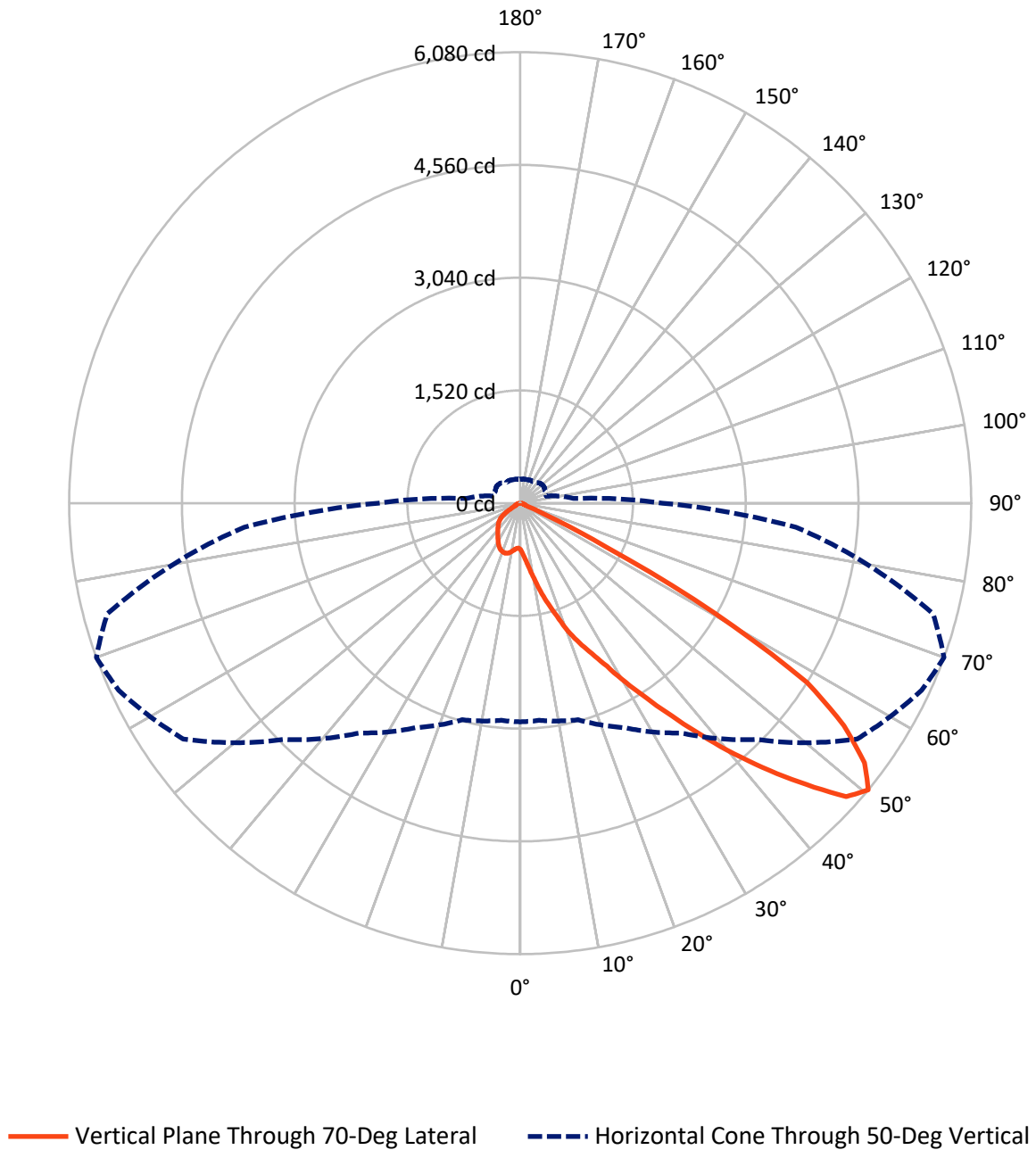
Based on 25 foot mounting height. Maximum calculated value = 3.6 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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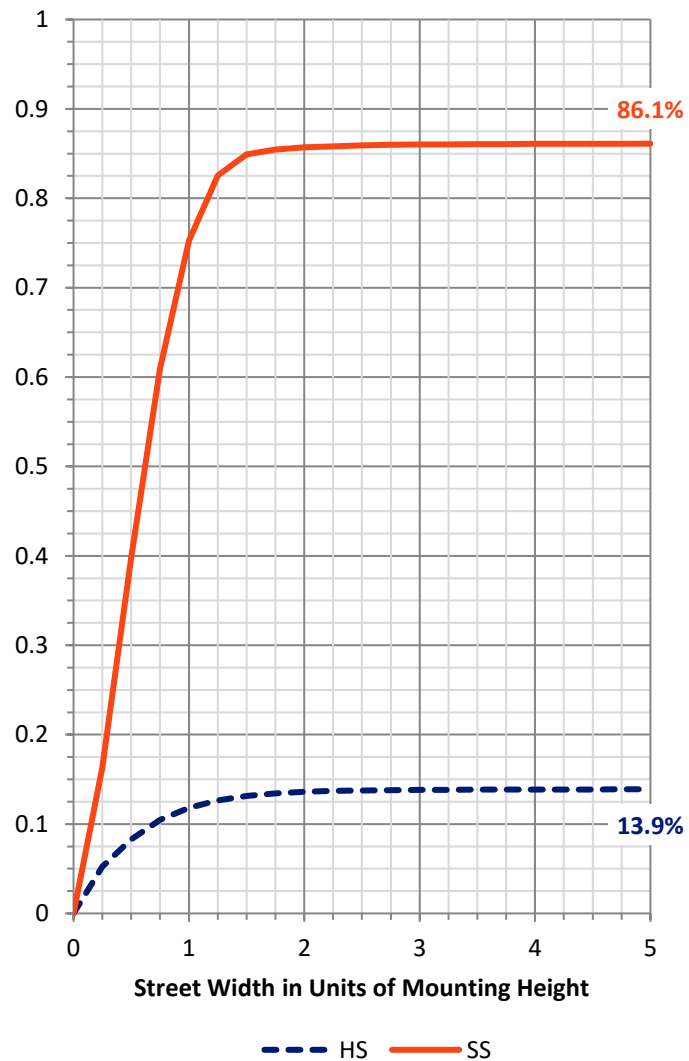
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	839.9	0.0	839.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	5174.1	0.0	5174.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	6014.0	0.0	6014.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	1.3
10°-20°	350.4	5.8
20°-30°	735.1	12.2
30°-40°	1267.0	21.1
40°-50°	1851.7	30.8
50°-60°	1442.2	24.0
60°-70°	244.3	4.1
70°-80°	33.6	0.6
80°-90°	8.7	0.1
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°	6014.0	100.0
0°-180°	6014.0	100.0

Coefficient of Utilization



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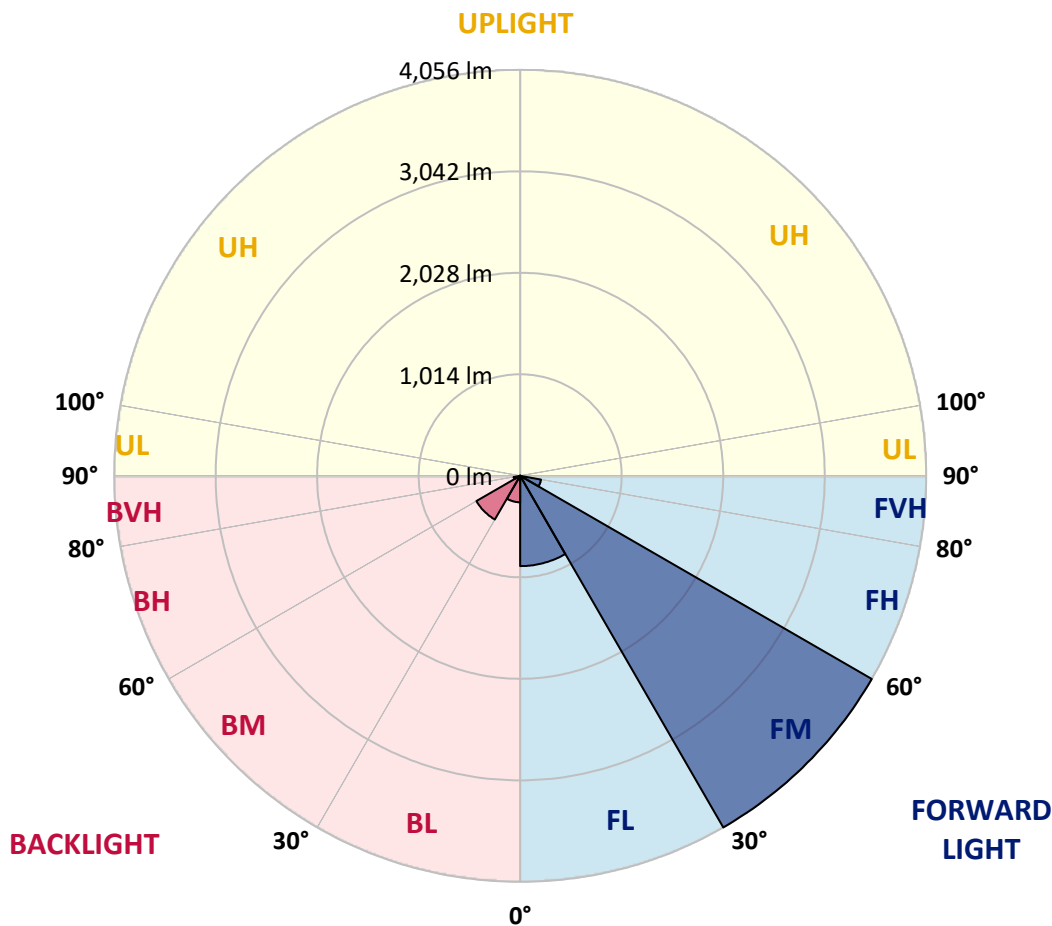
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	902.2	15.0			
FM	(30°-60°)	4056.3	67.4			
FH	(60°-80°)	211.6	3.5			G0/660
FVH	(80°-90°)	4.0	0.1			G0/10
BL	(0°-30°)	264.3	4.4	B1/500		
BM	(30°-60°)	504.6	8.4	B1/1000		
BH	(60°-80°)	66.3	1.1	B0/110		G0/110
BVH	(80°-90°)	4.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9
2.5°	815.7	809.8	797.0	773.2	763.3	739.6	725.8	699.1	682.3	663.5	642.7
5°	1149.0	1118.3	1099.5	1072.8	994.7	946.3	866.2	797.9	766.3	731.7	684.2
7.5°	1493.1	1473.3	1447.6	1390.2	1336.8	1236.0	1098.5	948.2	884.0	824.6	730.7
10°	1777.8	1722.5	1719.5	1677.0	1618.6	1498.0	1332.9	1146.0	1031.3	944.3	797.0
12.5°	1976.6	1926.1	1948.9	1943.9	1889.6	1778.8	1588.0	1340.8	1221.1	1085.7	865.2
15°	2157.5	2136.8	2129.8	2123.9	2102.1	2020.1	1849.0	1578.1	1405.1	1241.9	942.3
17.5°	2334.5	2281.1	2306.8	2311.8	2309.8	2235.6	2075.5	1803.5	1599.8	1407.0	1023.4
20°	2491.7	2496.7	2462.1	2455.1	2449.2	2446.2	2290.0	2027.0	1839.1	1580.1	1129.2
22.5°	2693.4	2658.8	2689.5	2669.7	2631.1	2607.4	2487.8	2224.8	2046.8	1788.7	1237.0
25°	2931.7	2959.4	2887.2	2879.3	2836.8	2754.7	2647.0	2446.2	2246.5	1982.5	1353.6
27.5°	3225.4	3177.0	3158.2	3114.7	3037.5	3002.9	2876.4	2674.7	2487.8	2186.2	1466.4
30°	3477.5	3464.7	3370.8	3319.3	3252.1	3251.1	3074.1	2984.1	2802.2	2505.6	1621.6
32.5°	3683.2	3626.8	3592.2	3556.6	3502.3	3517.1	3367.8	3320.3	3137.4	2802.2	1804.5
35°	3820.6	3780.1	3759.3	3705.0	3689.1	3755.4	3693.1	3673.3	3523.0	3219.5	2019.1
37.5°	3864.2	3877.0	3873.1	3804.8	3838.4	4017.4	4097.5	4046.1	3967.0	3659.5	2251.5
40°	3902.7	3911.6	3891.8	3971.9	4067.8	4271.5	4561.2	4476.2	4446.5	4105.4	2574.8
42.5°	3924.5	3917.5	3917.5	4056.0	4201.3	4610.7	5009.2	4952.8	4930.1	4580.0	2948.5
45°	3830.5	3763.3	3835.5	4023.3	4316.0	4777.8	5367.1	5445.2	5412.6	5144.6	3385.6
47.5°	3479.5	3521.0	3561.6	3812.7	4176.6	4726.4	5586.6	5852.6	5912.9	5619.2	3672.3
50°	2948.5	2939.6	3023.7	3340.1	3782.1	4504.9	5544.1	5970.3	6080.0	5761.6	3732.6
52.5°	2144.7	2209.9	2300.9	2615.3	3139.4	3931.4	4995.3	5666.7	5813.0	5586.6	3693.1
55°	1248.8	1176.6	1381.3	1647.3	2141.7	2965.4	4223.1	5023.0	5293.9	5268.2	3493.4
57.5°	500.3	484.5	554.7	747.5	1117.3	1838.1	3071.2	4127.2	4561.2	4825.3	3070.2
60°	219.5	214.6	252.1	304.5	456.8	847.4	1679.9	2566.9	3019.7	3371.7	2113.0
62.5°	158.2	156.2	175.0	193.8	241.3	368.8	706.0	1034.3	1289.4	1557.3	946.3
65°	127.6	132.5	145.4	155.2	178.0	204.7	249.2	287.7	353.0	365.8	208.6
67.5°	103.8	107.8	119.6	130.5	134.5	110.7	114.7	100.9	100.9	90.0	72.2
70°	76.1	77.1	91.0	103.8	83.1	44.5	78.1	78.1	70.2	67.2	61.3
72.5°	56.4	57.3	68.2	64.3	32.6	27.7	57.3	63.3	57.3	54.4	49.4
75°	41.5	42.5	35.6	14.8	13.8	17.8	33.6	43.5	41.5	40.5	37.6
77.5°	7.9	5.9	4.9	6.9	9.9	14.8	21.8	26.7	27.7	29.7	27.7
80°	1.0	1.0	3.0	5.9	10.9	15.8	22.7	25.7	26.7	27.7	25.7
82.5°	0.0	1.0	3.0	5.9	10.9	14.8	19.8	22.7	24.7	25.7	24.7
85°	0.0	1.0	2.0	4.9	8.9	10.9	9.9	6.9	5.9	6.9	4.9
87.5°	0.0	0.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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°	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9
2.5°	630.8	626.9	613.0	598.2	585.4	591.3	585.4	580.4	582.4	580.4	578.4
5°	665.4	647.7	618.0	605.1	594.3	593.3	590.3	589.3	590.3	590.3	581.4
7.5°	698.1	669.4	637.8	623.9	611.1	612.1	605.1	605.1	604.1	599.2	597.2
10°	747.5	709.0	668.4	643.7	627.9	624.9	618.0	611.1	611.1	611.1	601.2
12.5°	801.9	753.5	698.1	669.4	650.6	635.8	624.9	622.9	612.1	610.1	605.1
15°	849.4	788.1	717.9	678.3	654.6	634.8	618.0	607.1	602.2	599.2	595.2
17.5°	895.8	817.7	728.7	678.3	652.6	629.9	612.1	602.2	590.3	592.3	584.4
20°	958.1	849.4	731.7	665.4	633.8	612.1	588.3	583.4	576.5	570.5	572.5
22.5°	1018.4	872.1	722.8	649.6	604.1	578.4	566.6	560.6	557.7	552.7	545.8
25°	1072.8	896.8	709.0	621.0	572.5	553.7	542.8	541.9	534.9	534.9	522.1
27.5°	1128.2	905.7	685.2	587.3	544.8	533.9	529.0	527.0	524.1	517.1	508.2
30°	1191.5	908.7	650.6	552.7	520.1	508.2	515.2	520.1	507.2	494.4	498.3
32.5°	1243.9	901.8	609.1	520.1	502.3	496.4	510.2	515.2	500.3	486.5	479.6
35°	1307.2	885.0	568.5	494.4	484.5	496.4	508.2	508.2	478.6	461.8	457.8
37.5°	1403.1	866.2	531.0	472.6	465.7	490.4	506.3	495.4	448.9	428.1	423.2
40°	1505.9	854.3	494.4	450.9	455.8	480.5	489.4	455.8	408.4	395.5	391.6
42.5°	1655.2	830.6	461.8	432.1	446.9	466.7	466.7	406.4	388.6	381.7	380.7
45°	1841.1	813.8	433.1	416.3	434.1	439.0	423.2	380.7	367.8	365.8	366.8
47.5°	1932.1	781.1	403.4	397.5	410.3	411.3	369.8	359.9	349.0	346.1	344.1
50°	1918.2	722.8	364.9	372.8	390.6	380.7	337.2	339.2	329.3	328.3	323.3
52.5°	1821.3	630.8	326.3	345.1	364.9	336.2	310.5	308.5	308.5	295.6	290.7
55°	1614.7	508.2	279.8	303.6	327.3	282.8	275.9	273.9	268.9	257.1	254.1
57.5°	1278.5	372.8	210.6	236.3	277.8	240.3	239.3	230.4	217.5	208.6	208.6
60°	760.4	214.6	132.5	144.4	183.9	194.8	216.5	212.6	190.8	177.0	173.0
62.5°	347.1	110.7	84.0	86.0	98.9	126.6	170.1	196.8	166.1	142.4	140.4
65°	116.7	82.1	69.2	66.2	68.2	76.1	101.8	139.4	132.5	109.8	105.8
67.5°	71.2	73.2	65.3	60.3	60.3	59.3	58.3	63.3	78.1	76.1	77.1
70°	61.3	67.2	60.3	54.4	52.4	49.4	41.5	34.6	29.7	34.6	36.6
72.5°	49.4	53.4	51.4	46.5	41.5	37.6	29.7	22.7	16.8	14.8	14.8
75°	36.6	39.6	41.5	35.6	31.6	26.7	21.8	14.8	8.9	5.9	5.9
77.5°	26.7	29.7	30.7	27.7	23.7	18.8	13.8	9.9	4.9	2.0	2.0
80°	22.7	26.7	29.7	27.7	24.7	17.8	12.9	6.9	4.0	1.0	1.0
82.5°	21.8	26.7	29.7	26.7	23.7	16.8	12.9	7.9	3.0	1.0	1.0
85°	4.9	6.9	8.9	10.9	12.9	12.9	9.9	5.9	3.0	1.0	1.0
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	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)