

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: P527725

Luminaire Tested: **GALN-SA2D-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-730-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8616 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

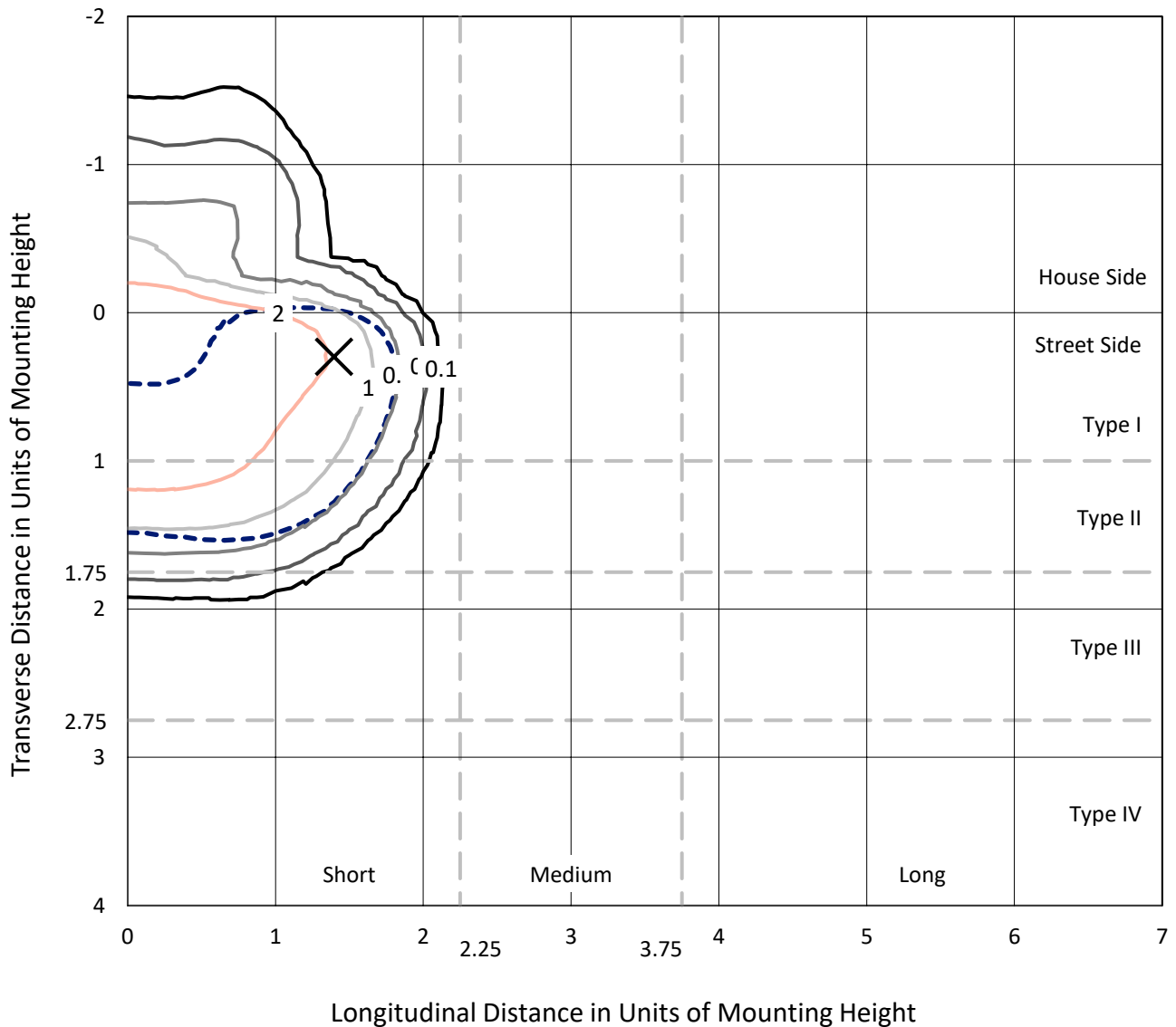
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

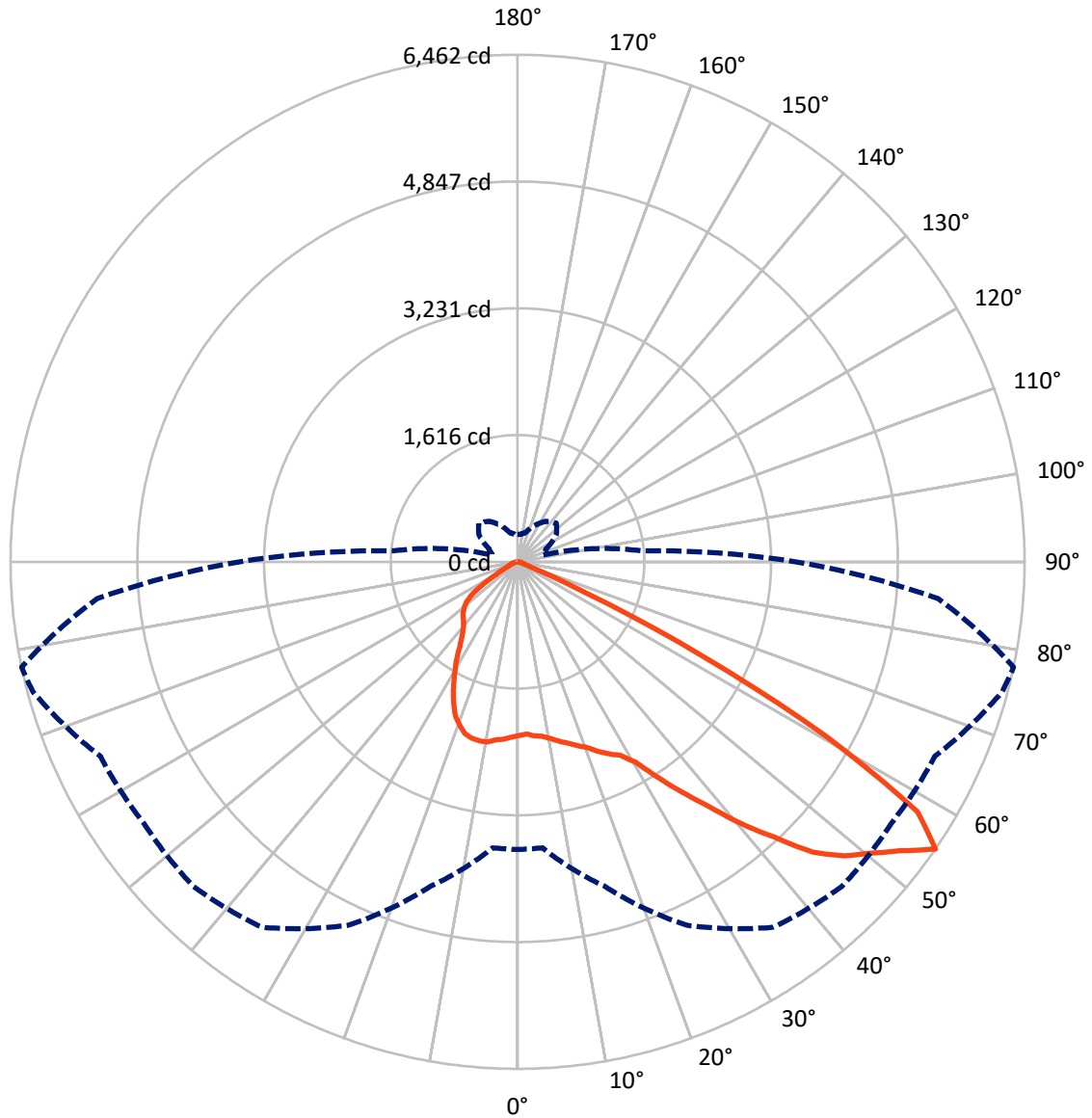
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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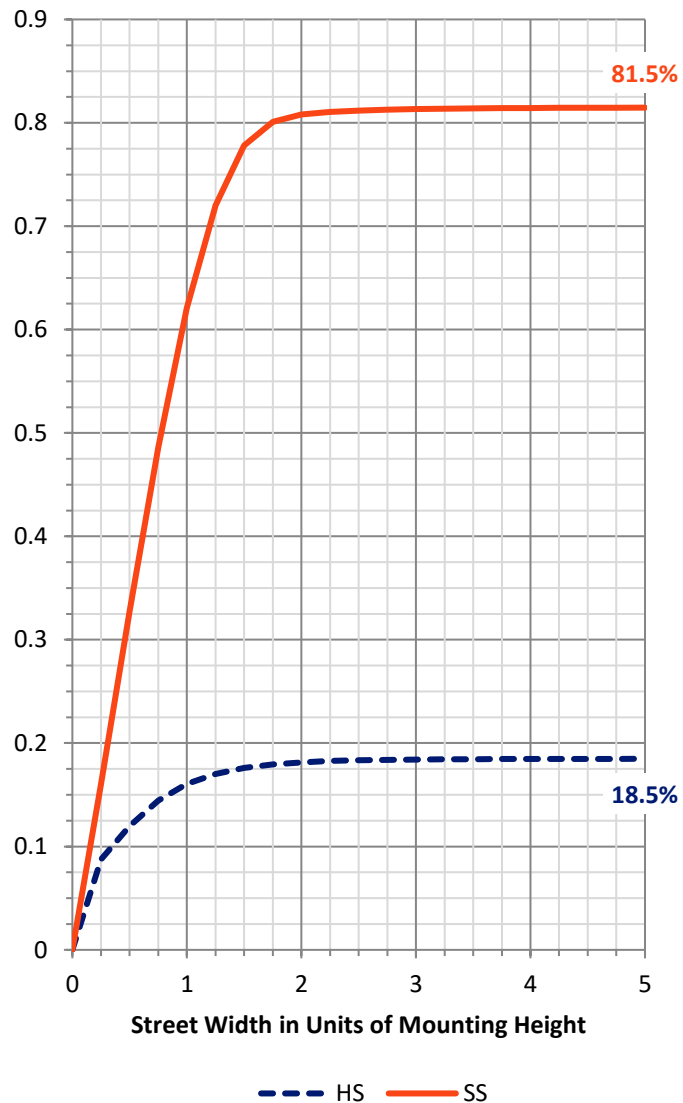
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1600.3	0.0	1600.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	7015.7	0.0	7015.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	8616.0	0.0	8616.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.5	2.3
10°-20°	522.7	6.1
20°-30°	916.3	10.6
30°-40°	1510.8	17.5
40°-50°	2198.5	25.5
50°-60°	2491.1	28.9
60°-70°	712.2	8.3
70°-80°	55.3	0.6
80°-90°	11.5	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°	8616.0	100.0
0°-180°	8616.0	100.0

Coefficient of Utilization



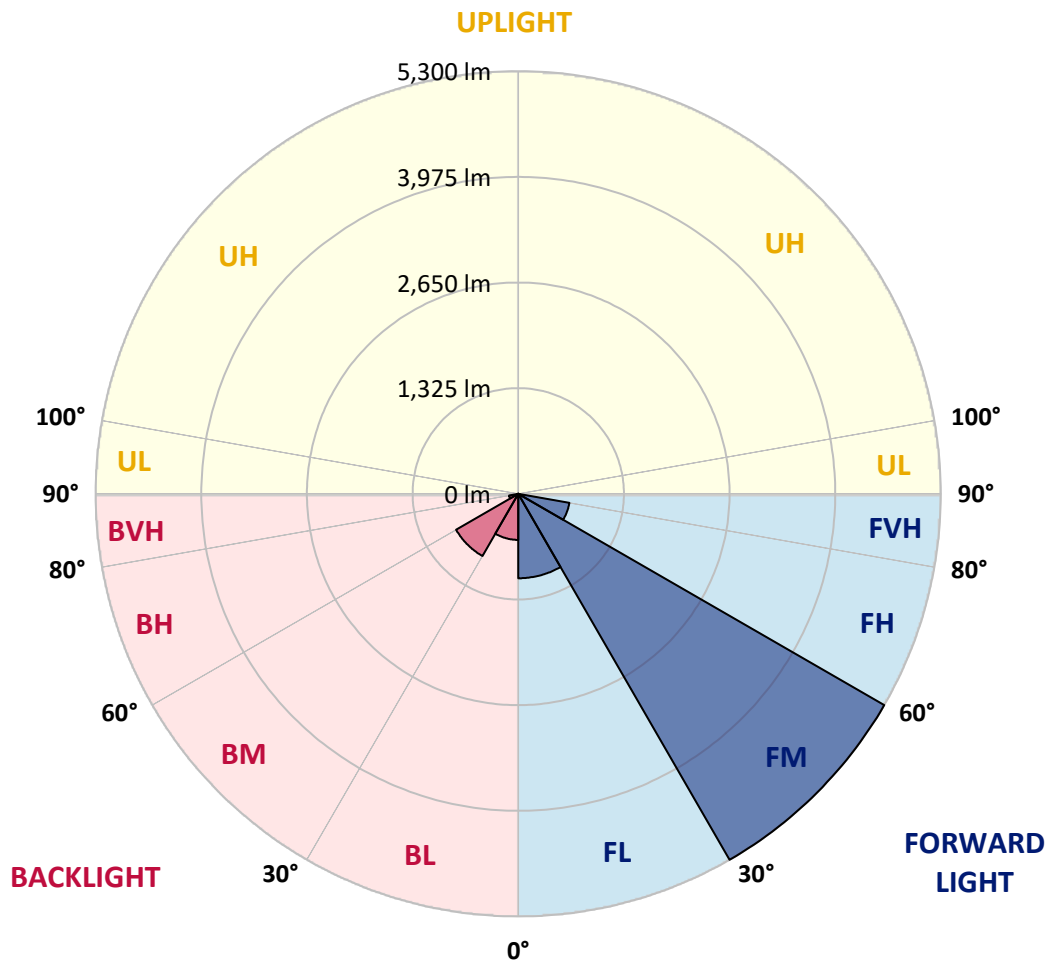
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1059.2	12.3			
FM (30°-60°)	5300.2	61.5			
FH (60°-80°)	650.7	7.6			G0/660
FVH (80°-90°)	5.6	0.1			G0/10
BL (0°-30°)	577.4	6.7	B2/1000		
BM (30°-60°)	900.2	10.4	B1/1000		
BH (60°-80°)	116.8	1.4	B1/500		G1/500
BVH (80°-90°)	5.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2215.2	2215.2	2215.2	2215.2	2215.2	2215.2	2215.2	2215.2	2215.2	2215.2	2215.2
2.5°	2082.7	2102.7	2105.8	2130.5	2128.9	2170.5	2182.8	2184.4	2212.1	2198.2	2233.7
5°	2024.2	2013.4	2008.8	2051.9	2064.2	2101.2	2132.0	2150.5	2207.5	2227.5	2264.5
7.5°	1971.8	1971.8	1974.9	2013.4	2008.8	2056.5	2088.9	2145.9	2229.0	2246.0	2290.7
10°	1921.0	1902.5	1925.6	1965.6	1999.5	2021.1	2088.9	2142.8	2239.8	2289.1	2350.7
12.5°	1894.8	1904.0	1907.1	1936.4	1973.3	2038.0	2075.0	2164.3	2316.8	2346.1	2412.4
15°	2059.6	2041.1	1996.4	1970.2	2001.1	2031.9	2124.3	2215.2	2356.9	2398.5	2472.4
17.5°	2250.6	2235.2	2198.2	2127.4	2058.1	2115.0	2187.5	2270.6	2400.0	2461.7	2571.0
20°	2500.2	2475.5	2438.5	2299.9	2239.8	2178.2	2255.2	2353.8	2470.9	2526.4	2638.8
22.5°	2797.5	2797.5	2714.3	2546.4	2421.6	2363.1	2395.4	2452.4	2549.5	2624.9	2735.9
25°	3107.1	3097.9	3022.4	2848.3	2637.3	2567.9	2604.9	2645.0	2671.2	2712.7	2786.7
27.5°	3461.4	3407.5	3312.0	3119.4	2933.0	2799.0	2839.1	2803.6	2771.3	2792.9	2899.1
30°	3701.7	3735.6	3613.9	3429.1	3253.4	3104.0	3111.7	3080.9	2933.0	2963.8	3027.0
32.5°	3951.3	3972.8	3905.1	3803.4	3627.8	3453.7	3390.5	3364.4	3253.4	3267.3	3205.7
35°	4159.2	4200.8	4140.8	4096.1	4045.2	3905.1	3731.0	3815.7	3637.0	3603.1	3442.9
37.5°	4350.3	4337.9	4408.8	4362.6	4351.8	4253.2	4062.2	4079.1	3959.0	3951.3	3766.4
40°	4521.2	4524.3	4621.4	4642.9	4599.8	4424.2	4146.9	4280.9	4378.0	4387.2	4150.0
42.5°	4663.0	4704.6	4787.7	4961.8	4897.1	4604.4	4234.7	4381.1	4741.5	4798.5	4513.5
45°	4786.2	4870.9	4974.1	5129.7	5092.8	4860.1	4453.5	4587.5	5129.7	5279.1	4855.5
47.5°	4793.9	4904.8	5017.3	5248.3	5294.6	4997.2	4679.9	4914.1	5437.8	5599.6	5105.1
50°	4763.1	4821.6	5046.5	5297.6	5402.4	5220.6	4997.2	5188.3	5736.7	5838.3	5231.4
52.5°	4398.0	4442.7	4894.0	5343.8	5596.5	5473.2	5417.8	5570.3	6041.7	6117.2	5350.0
55°	3666.3	3658.6	4279.4	5111.2	5685.8	5847.6	5813.7	5867.6	6394.4	6462.2	5379.3
57.5°	2507.9	2648.0	3184.1	4256.3	5139.0	5759.8	5795.2	5705.9	5983.1	6009.3	4689.2
60°	1352.5	1411.1	1842.4	2840.6	3912.8	4693.8	4786.2	4624.5	4602.9	4528.9	3347.4
62.5°	537.6	566.9	811.8	1406.4	2132.0	2852.9	3051.6	2985.4	2843.7	2649.6	1733.0
65°	255.7	274.2	403.6	657.8	945.8	1189.2	1388.0	1449.6	1069.1	962.8	571.5
67.5°	174.1	187.9	294.2	375.9	337.4	352.8	459.1	426.7	251.1	214.1	158.7
70°	132.5	141.7	235.7	255.7	151.0	106.3	118.6	110.9	103.2	104.8	103.2
72.5°	94.0	101.7	172.5	151.0	66.2	49.3	63.2	75.5	75.5	75.5	73.9
75°	57.0	64.7	100.1	58.5	26.2	26.2	40.1	50.8	53.9	55.5	52.4
77.5°	29.3	37.0	33.9	16.9	16.9	20.0	29.3	35.4	38.5	38.5	37.0
80°	6.2	6.2	6.2	9.2	16.9	21.6	29.3	32.3	37.0	37.0	33.9
82.5°	0.0	1.5	4.6	9.2	15.4	20.0	27.7	32.3	37.0	38.5	35.4
85°	0.0	1.5	3.1	6.2	10.8	12.3	10.8	9.2	9.2	9.2	9.2
87.5°	0.0	0.0	1.5	1.5	1.5	3.1	3.1	3.1	3.1	3.1	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2215.2	2215.2	2215.2	2215.2	2215.2	2215.2	2215.2	2215.2	2215.2	2215.2	2215.2
2.5°	2236.7	2241.4	2233.7	2232.1	2226.0	2244.4	2199.8	2189.0	2216.7	2190.5	2196.7
5°	2266.0	2276.8	2262.9	2239.8	2205.9	2153.6	2108.9	2050.3	2022.6	2002.6	1999.5
7.5°	2287.6	2295.3	2281.4	2207.5	2105.8	1973.3	1874.7	1802.3	1745.3	1728.4	1700.7
10°	2375.4	2376.9	2307.6	2144.3	1945.6	1771.5	1620.6	1509.6	1452.7	1417.2	1401.8
12.5°	2433.9	2430.8	2290.7	2019.5	1754.6	1523.5	1351.0	1217.0	1164.6	1147.6	1136.9
15°	2507.9	2490.9	2250.6	1891.7	1508.1	1258.6	1103.0	1010.5	1005.9	995.1	1005.9
17.5°	2566.4	2518.6	2192.1	1659.1	1272.4	1036.7	935.1	941.2	953.5	964.3	965.9
20°	2661.9	2563.3	2058.1	1455.7	1053.7	888.8	887.3	915.0	945.8	958.2	970.5
22.5°	2734.3	2581.8	1914.8	1238.5	875.0	828.8	855.0	896.5	919.7	932.0	950.5
25°	2760.5	2531.0	1723.8	1021.3	788.7	801.0	841.1	868.8	898.1	912.0	904.2
27.5°	2786.7	2504.8	1495.8	841.1	742.5	782.6	816.4	844.2	853.4	871.9	884.2
30°	2849.8	2413.9	1290.9	727.1	719.4	770.2	794.9	804.1	828.8	839.5	839.5
32.5°	2900.7	2378.5	1073.7	673.2	716.3	776.4	779.5	779.5	782.6	774.9	771.8
35°	3005.4	2256.8	879.6	640.8	714.8	777.9	785.6	759.4	688.6	660.9	653.2
37.5°	3134.8	2178.2	736.3	633.1	725.6	796.4	808.7	710.2	617.7	573.1	565.3
40°	3292.0	2122.8	642.4	630.0	750.2	839.5	802.6	671.6	551.5	486.8	483.7
42.5°	3475.3	2071.9	579.2	628.5	781.0	884.2	796.4	639.3	483.7	440.6	446.7
45°	3621.6	2044.2	536.1	617.7	791.8	910.4	801.0	582.3	456.0	428.2	431.3
47.5°	3735.6	1985.7	500.6	599.2	790.3	919.7	759.4	559.2	442.1	449.8	457.5
50°	3738.7	1907.1	456.0	559.2	767.1	902.7	711.7	537.6	439.0	471.4	486.8
52.5°	3697.1	1796.2	408.2	502.2	713.2	844.2	668.6	528.4	425.2	422.1	440.6
55°	3549.2	1588.2	328.1	406.7	602.3	696.3	630.0	511.4	383.6	348.1	351.2
57.5°	2868.3	1138.4	241.9	291.1	426.7	509.9	568.4	503.7	345.1	295.8	297.3
60°	1776.1	645.5	177.2	198.7	263.4	309.6	460.6	468.3	308.1	249.6	246.5
62.5°	912.0	318.9	137.1	140.2	161.7	181.8	315.8	392.8	278.8	237.2	237.2
65°	305.0	157.1	120.2	107.8	107.8	112.5	191.0	272.7	235.7	198.7	198.7
67.5°	130.9	117.1	104.8	94.0	86.3	81.6	107.8	158.7	175.6	151.0	144.8
70°	101.7	98.6	90.9	78.6	67.8	61.6	63.2	81.6	100.1	97.0	94.0
72.5°	75.5	75.5	72.4	61.6	52.4	44.7	41.6	43.1	47.8	49.3	50.8
75°	52.4	53.9	53.9	47.8	38.5	32.3	27.7	23.1	18.5	15.4	13.9
77.5°	35.4	37.0	40.1	35.4	29.3	21.6	16.9	12.3	7.7	3.1	3.1
80°	30.8	35.4	38.5	35.4	30.8	23.1	16.9	9.2	4.6	0.0	0.0
82.5°	32.3	35.4	40.1	33.9	29.3	21.6	16.9	10.8	4.6	1.5	0.0
85°	7.7	7.7	9.2	10.8	13.9	15.4	12.3	7.7	4.6	1.5	0.0
87.5°	3.1	3.1	3.1	3.1	3.1	1.5	1.5	1.5	1.5	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)