

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: P453055

Luminaire Tested: **GALN-SA4A-740-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453055
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14164 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

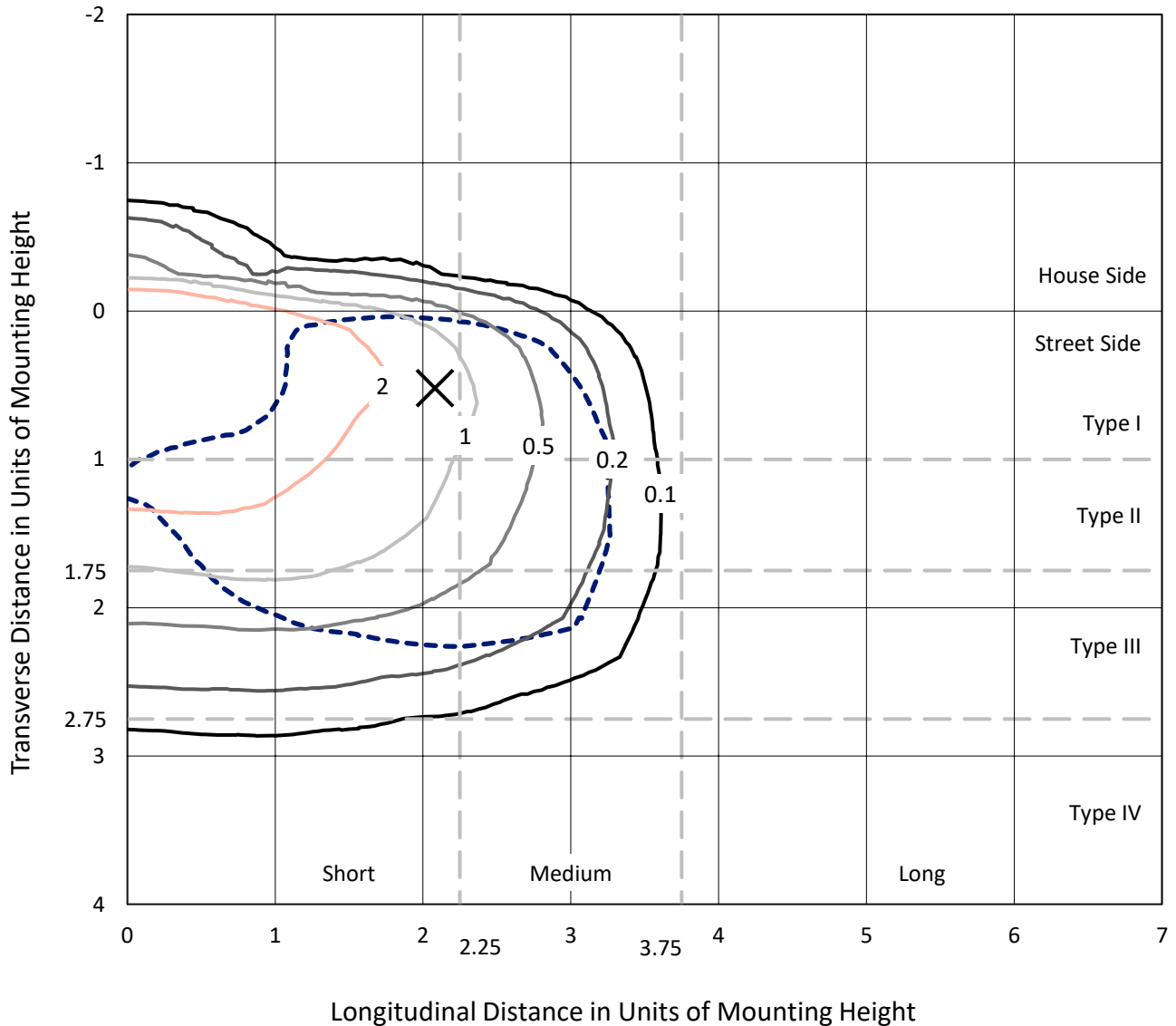
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

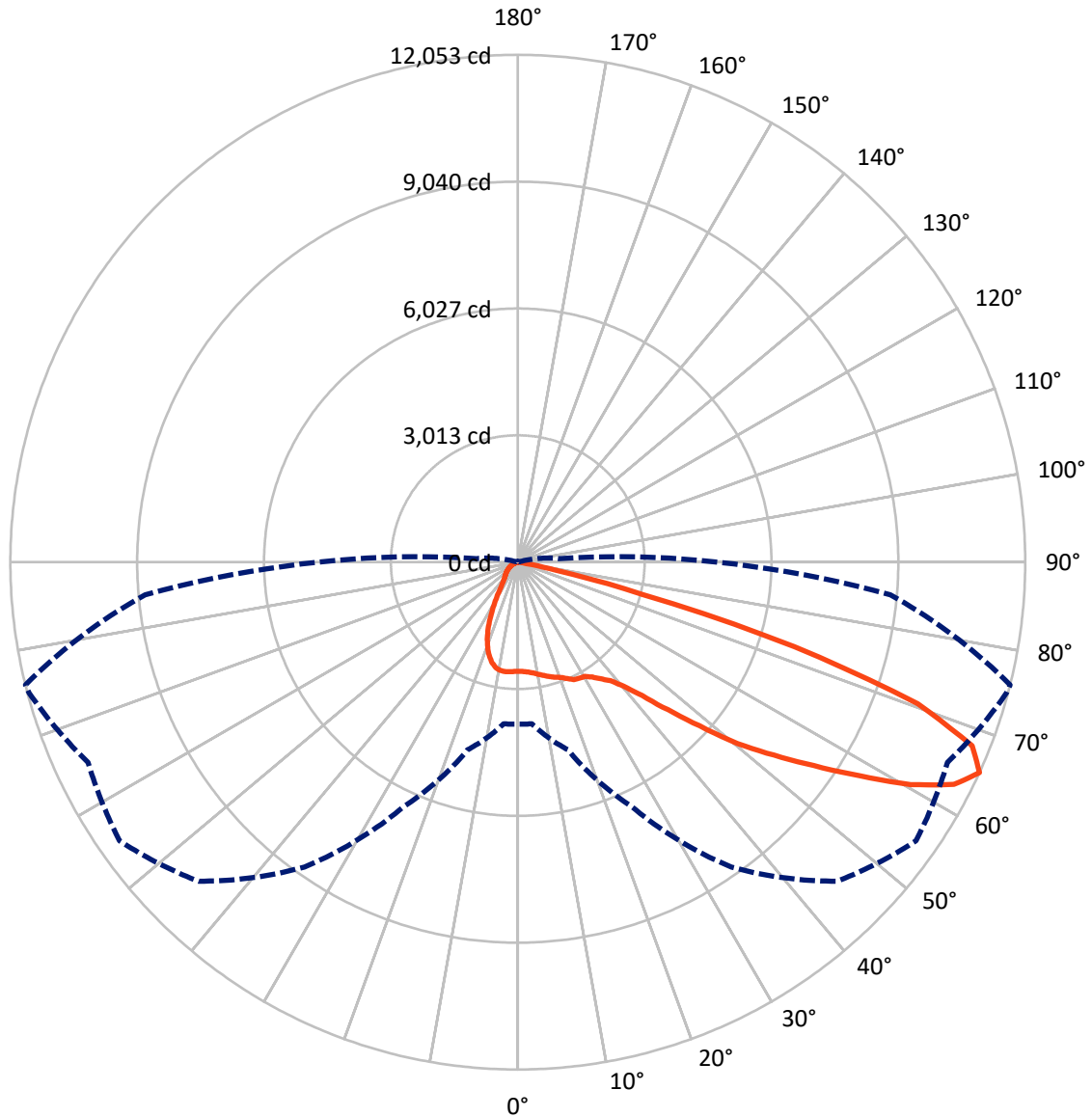
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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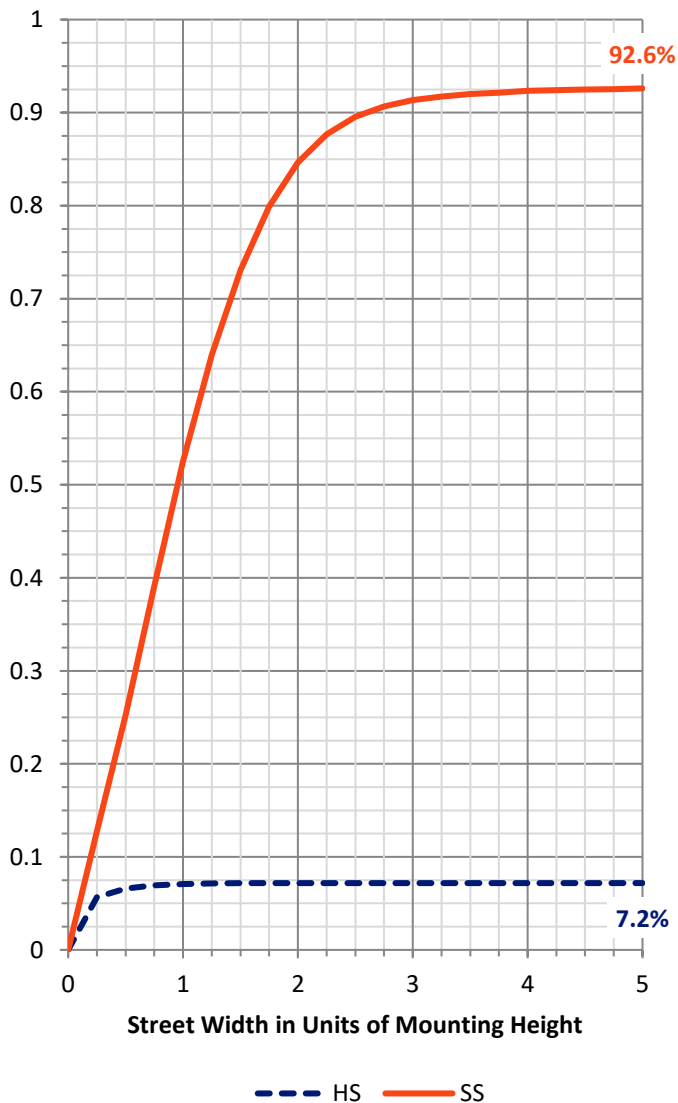
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1022.9	0.0	1022.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	13141.1	0.0	13141.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	14164.0	0.0	14164.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.4	1.5
10°-20°	475.2	3.4
20°-30°	765.8	5.4
30°-40°	1331.6	9.4
40°-50°	2200.3	15.5
50°-60°	3399.0	24.0
60°-70°	4150.7	29.3
70°-80°	1575.3	11.1
80°-90°	52.6	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°	14164.0	100.0
0°-180°	14164.0	100.0

Coefficient of Utilization



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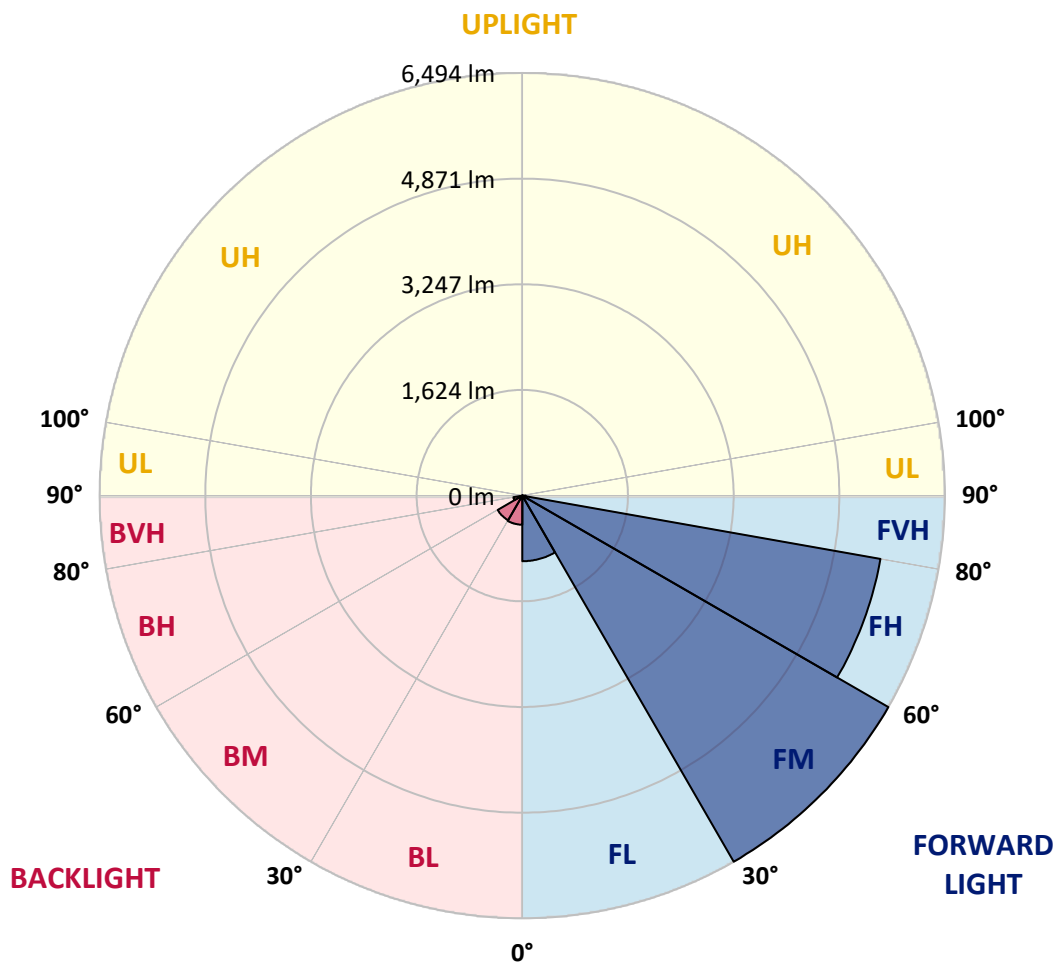
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1007.6	7.1			
FM (30°-60°)	6494.4	45.9			
FH (60°-80°)	5587.2	39.4			G3/7500
FVH (80°-90°)	51.8	0.4			G1/100
BL (0°-30°)	446.9	3.2	B1/500		
BM (30°-60°)	436.5	3.1	B1/1000		
BH (60°-80°)	138.8	1.0	B1/500		G1/500
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0
2.5°	2476.0	2477.0	2483.0	2498.0	2521.0	2540.0	2556.0	2582.0	2600.0	2602.0	2608.0
5°	2305.0	2293.0	2305.0	2344.0	2379.0	2432.0	2497.0	2562.0	2620.0	2624.0	2652.0
7.5°	2113.0	2123.0	2142.0	2182.0	2248.0	2329.0	2423.0	2539.0	2649.0	2659.0	2714.0
10°	1918.0	1940.0	1971.0	2032.0	2124.0	2229.0	2357.0	2523.0	2695.0	2709.0	2804.1
12.5°	1738.0	1748.0	1786.0	1868.0	1982.0	2130.0	2307.0	2514.0	2746.1	2763.1	2900.1
15°	1600.0	1613.0	1646.0	1720.0	1847.0	2037.0	2266.0	2511.0	2796.1	2820.1	2996.1
17.5°	1574.0	1582.0	1596.0	1646.0	1757.0	1963.0	2229.0	2510.0	2844.1	2873.1	3085.1
20°	1681.0	1674.0	1660.0	1655.0	1716.0	1906.0	2202.0	2518.0	2890.1	2923.1	3179.1
22.5°	1949.0	1958.0	1876.0	1779.0	1759.0	1897.0	2198.0	2556.0	2963.1	3002.1	3284.1
25°	2518.0	2449.0	2321.0	2089.0	1914.0	1952.0	2243.0	2646.0	3048.1	3091.1	3379.1
27.5°	3147.1	3126.1	2927.1	2545.0	2219.0	2068.0	2323.0	2715.0	3076.1	3120.1	3433.1
30°	3765.1	3790.1	3562.1	3140.1	2662.0	2283.0	2398.0	2741.1	3101.1	3147.1	3502.1
32.5°	4338.1	4368.1	4168.1	3750.1	3184.1	2655.0	2527.0	2842.1	3206.1	3253.1	3617.1
35°	4789.1	4793.1	4642.1	4309.1	3754.1	3107.1	2806.1	3019.1	3348.1	3403.1	3739.1
37.5°	5203.1	5197.1	5020.1	4733.1	4229.1	3556.1	3157.1	3223.1	3510.1	3567.1	3915.1
40°	5510.1	5514.1	5457.1	5187.1	4672.1	3971.1	3435.1	3414.1	3782.1	3871.1	4171.1
42.5°	5715.1	5752.1	5780.1	5643.1	5229.1	4482.1	3862.1	3823.1	4254.1	4328.1	4533.1
45°	5881.1	5947.1	6087.1	6080.1	5764.1	5109.1	4448.1	4368.1	4923.1	5002.1	4994.1
47.5°	6002.1	6069.1	6301.1	6441.1	6267.1	5717.1	5185.1	5116.1	5722.1	5808.1	5503.1
50°	6064.1	6144.1	6440.1	6711.1	6660.1	6303.1	6025.1	6029.1	6687.1	6770.1	6093.1
52.5°	5919.1	6023.1	6514.1	7002.1	7101.1	6864.1	6812.1	6944.1	7546.1	7617.1	6626.1
55°	5456.1	5587.1	6413.1	7250.1	7612.1	7526.1	7706.1	7907.1	8485.2	8531.2	7173.1
57.5°	5163.1	5302.1	6115.1	7461.1	8226.2	8358.2	8643.2	8790.2	9454.2	9571.2	7801.1
60°	4916.1	5025.1	5870.1	7506.1	8850.2	9376.2	9653.2	9805.2	10650.2	10726.2	8492.2
62.5°	4505.1	4630.1	5456.1	7192.1	9164.2	10191.2	10765.2	10697.2	11575.2	11628.2	8916.2
65°	3844.1	3855.1	4616.1	6403.1	8840.2	10720.2	11546.2	11261.2	12017.2	12053.2	8883.2
67.5°	2869.1	2975.1	3551.1	5033.1	7467.1	10268.2	11799.2	11276.2	11738.2	11638.2	8178.2
70°	1848.0	1929.0	2407.0	3490.1	5384.1	8569.2	10960.2	10503.2	10302.2	10080.2	6694.1
72.5°	853.0	957.0	1430.0	1994.0	3193.1	6104.1	8897.2	8533.2	7415.1	6867.1	4255.1
75°	372.0	398.0	706.0	1052.0	1497.0	3228.1	5866.1	5297.1	3349.1	3059.1	1703.0
77.5°	227.0	244.0	370.0	564.0	588.0	1230.0	3160.1	2311.0	1035.0	913.0	462.0
80°	154.0	173.0	269.0	295.0	201.0	343.0	1186.0	617.0	209.0	200.0	99.0
82.5°	75.0	95.0	199.0	165.0	87.0	110.0	345.0	132.0	61.0	57.0	35.0
85°	11.0	19.0	112.0	108.0	39.0	26.0	61.0	33.0	21.0	20.0	16.0
87.5°	0.0	0.0	38.0	17.0	4.0	4.0	7.0	7.0	8.0	7.0	8.0
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°	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0
2.5°	2611.0	2616.0	2597.0	2570.0	2541.0	2512.0	2471.0	2434.0	2412.0	2425.0	2393.0
5°	2658.0	2654.0	2604.0	2522.0	2413.0	2282.0	2152.0	2041.0	2005.0	1951.0	1945.0
7.5°	2723.1	2712.0	2606.0	2418.0	2172.0	1926.0	1686.0	1527.0	1436.0	1359.0	1361.0
10°	2814.1	2782.1	2583.0	2235.0	1830.0	1459.0	1153.0	943.0	852.0	823.0	800.0
12.5°	2908.1	2846.1	2519.0	1988.0	1425.0	997.0	701.0	573.0	517.0	499.0	497.0
15°	2992.1	2894.1	2407.0	1691.0	1036.0	637.0	478.0	436.0	429.0	430.0	429.0
17.5°	3075.1	2932.1	2252.0	1376.0	704.0	457.0	411.0	401.0	404.0	408.0	407.0
20°	3144.1	2940.1	2054.0	1050.0	498.0	401.0	386.0	384.0	387.0	390.0	390.0
22.5°	3219.1	2946.1	1819.0	727.0	407.0	373.0	365.0	365.0	369.0	373.0	374.0
25°	3275.1	2913.1	1538.0	522.0	359.0	346.0	342.0	343.0	347.0	349.0	348.0
27.5°	3284.1	2820.1	1240.0	400.0	326.0	313.0	309.0	313.0	308.0	311.0	309.0
30°	3292.1	2702.0	938.0	337.0	296.0	276.0	270.0	264.0	260.0	255.0	254.0
32.5°	3317.1	2563.0	685.0	303.0	268.0	246.0	232.0	215.0	202.0	198.0	197.0
35°	3328.1	2396.0	503.0	276.0	243.0	219.0	194.0	170.0	151.0	144.0	149.0
37.5°	3370.1	2234.0	390.0	256.0	221.0	191.0	159.0	129.0	111.0	107.0	109.0
40°	3456.1	2058.0	327.0	239.0	202.0	165.0	126.0	97.0	85.0	81.0	80.0
42.5°	3594.1	1883.0	291.0	223.0	183.0	139.0	99.0	76.0	66.0	63.0	63.0
45°	3762.1	1715.0	266.0	206.0	163.0	112.0	78.0	61.0	55.0	53.0	53.0
47.5°	3983.1	1568.0	245.0	189.0	141.0	89.0	63.0	53.0	49.0	50.0	51.0
50°	4207.1	1459.0	222.0	170.0	116.0	73.0	54.0	47.0	46.0	47.0	47.0
52.5°	4376.1	1395.0	191.0	144.0	91.0	61.0	48.0	44.0	43.0	41.0	41.0
55°	4604.1	1381.0	152.0	117.0	72.0	51.0	43.0	40.0	37.0	35.0	34.0
57.5°	4897.1	1397.0	117.0	91.0	56.0	42.0	38.0	33.0	29.0	25.0	25.0
60°	5079.1	1361.0	91.0	70.0	41.0	34.0	29.0	24.0	19.0	16.0	15.0
62.5°	5021.1	1209.0	72.0	52.0	29.0	25.0	19.0	16.0	11.0	8.0	7.0
65°	4722.1	976.0	58.0	36.0	21.0	15.0	10.0	10.0	5.0	1.0	0.0
67.5°	4133.1	723.0	46.0	24.0	12.0	7.0	5.0	3.0	0.0	0.0	0.0
70°	3364.1	522.0	36.0	15.0	7.0	5.0	2.0	1.0	0.0	0.0	0.0
72.5°	2136.0	299.0	28.0	9.0	5.0	2.0	0.0	0.0	0.0	0.0	0.0
75°	826.0	117.0	19.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	234.0	55.0	11.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	61.0	24.0	6.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	29.0	10.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.0	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)