

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: P452825

Luminaire Tested: **GALN-SA3D-740-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16629 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

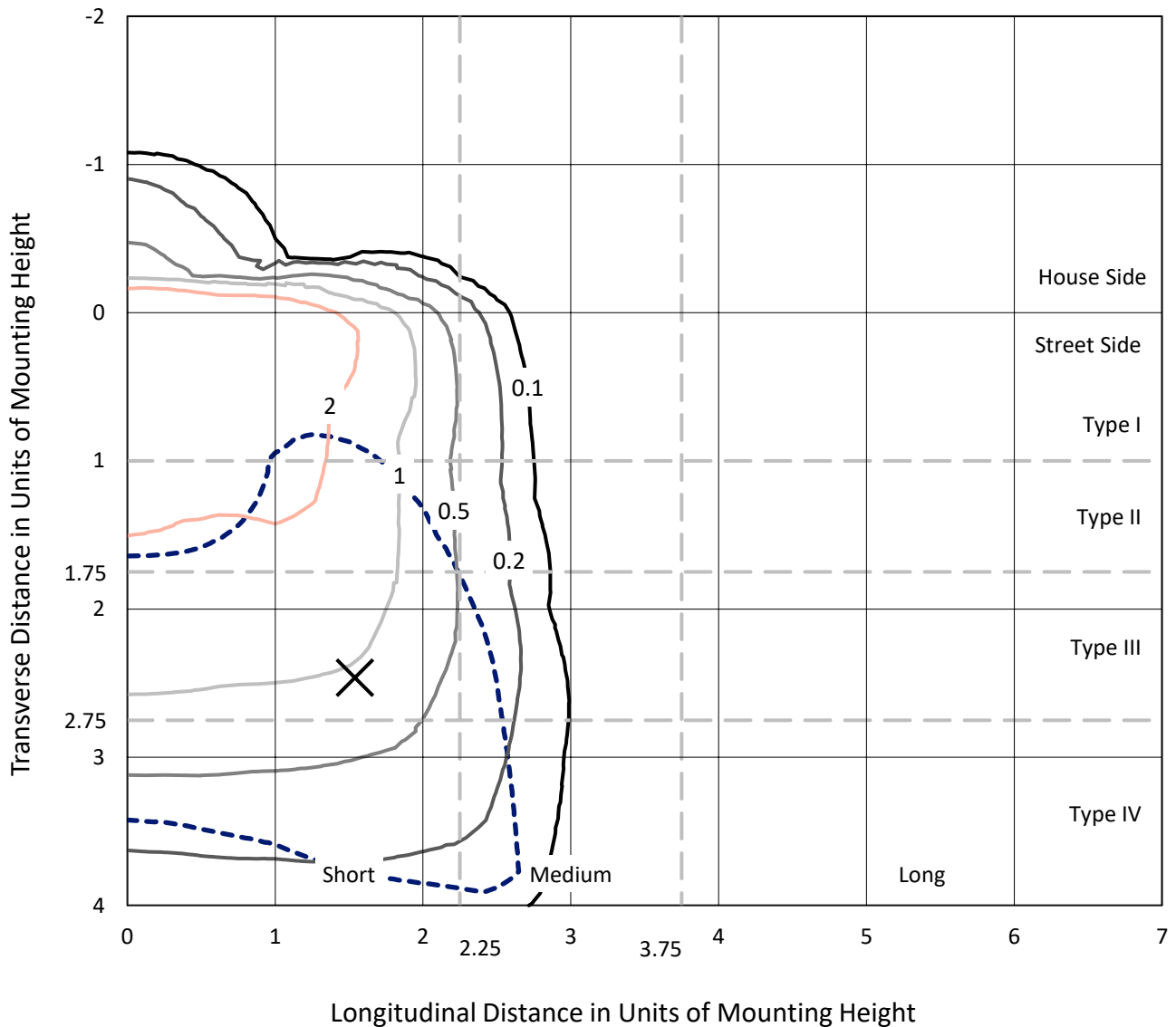
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

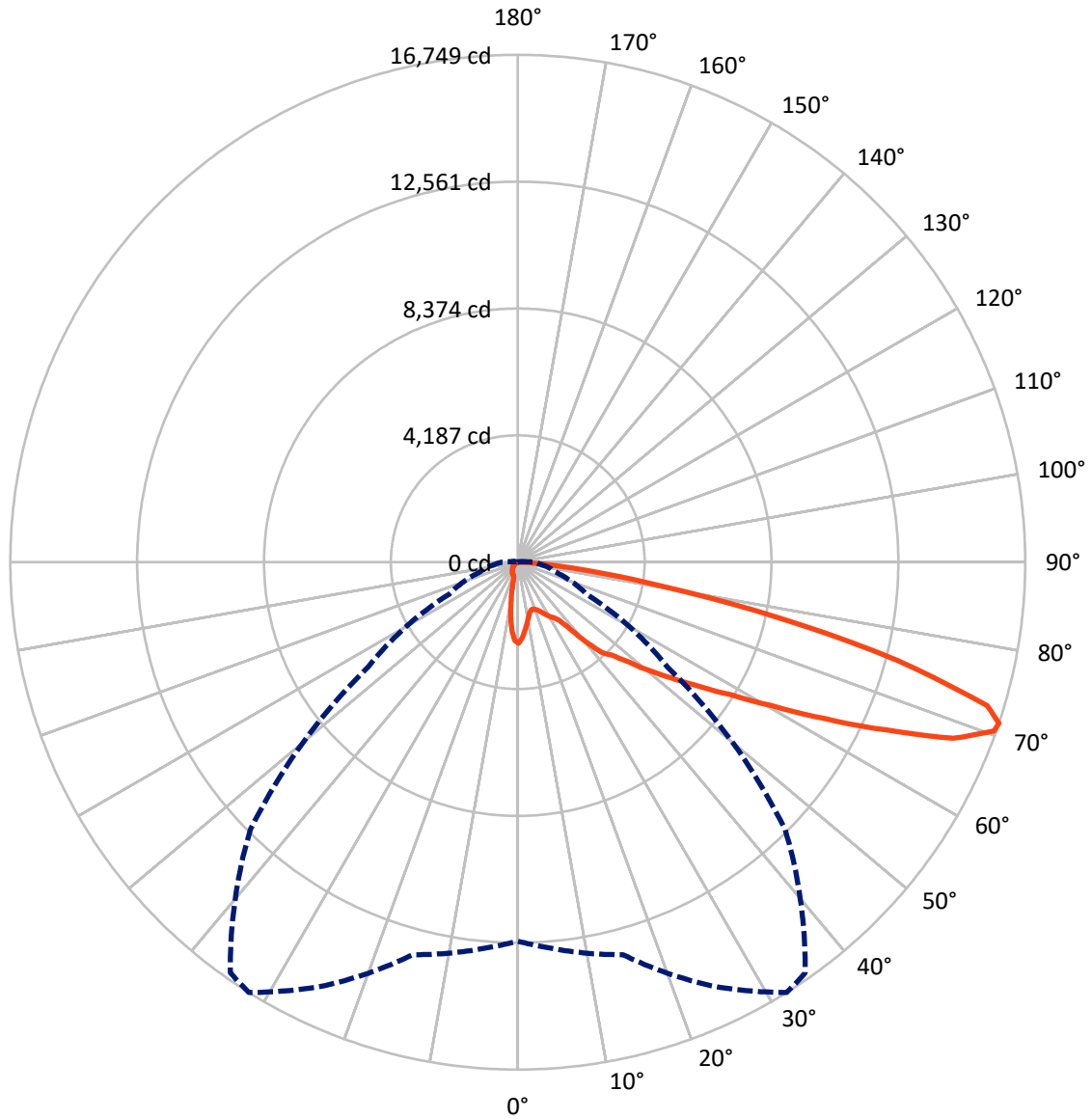
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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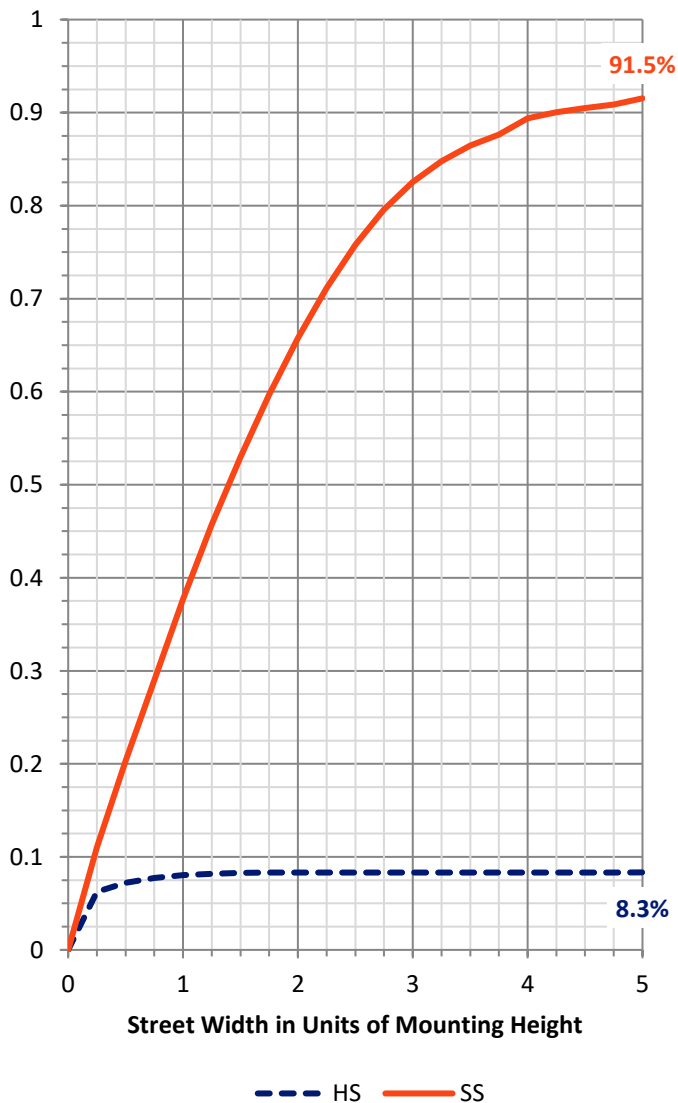
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1392.9	0.0	1392.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	15236.1	0.0	15236.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	16629.0	0.0	16629.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.4	1.3
10°-20°	471.9	2.8
20°-30°	734.2	4.4
30°-40°	1223.1	7.4
40°-50°	2275.3	13.7
50°-60°	3653.0	22.0
60°-70°	4913.5	29.5
70°-80°	2915.2	17.5
80°-90°	225.3	1.4
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°	16629.0	100.0
0°-180°	16629.0	100.0

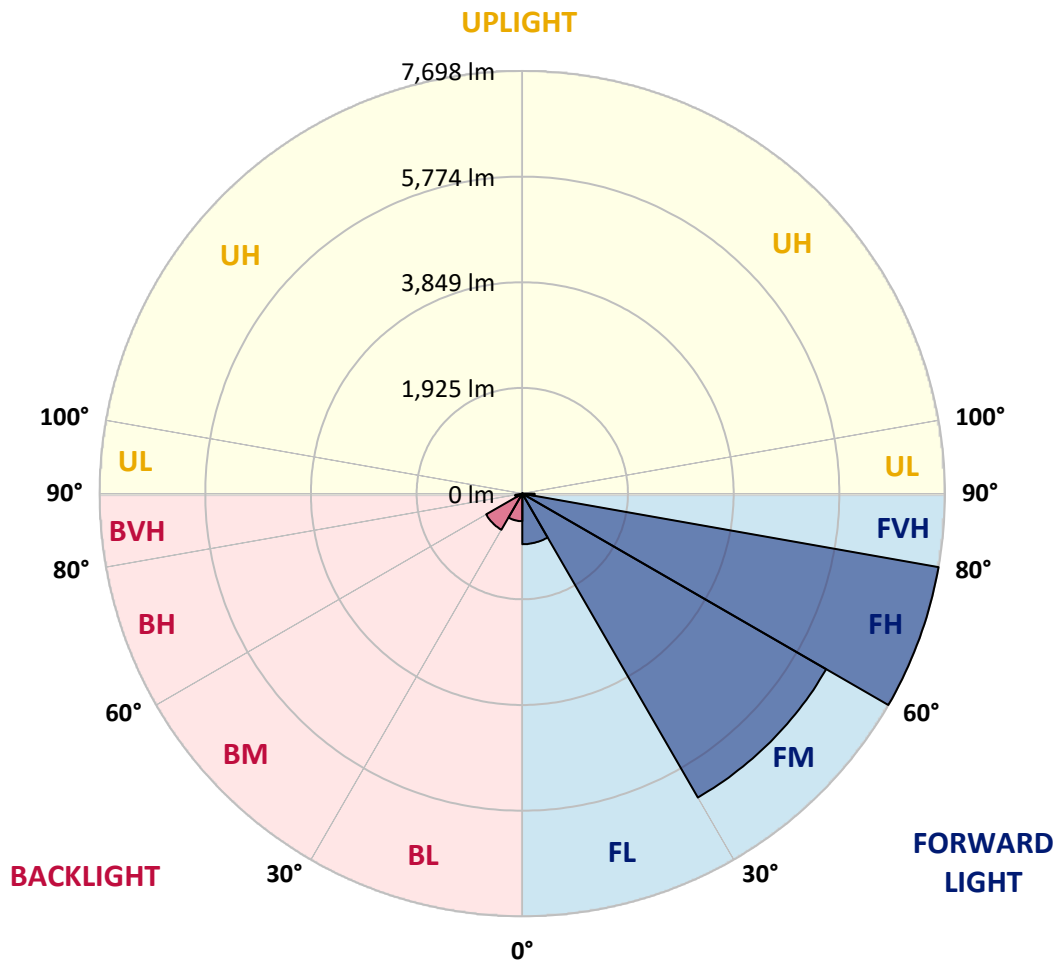


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	921.7	5.5			
FM	(30°-60°)	6391.6	38.4			
FH	(60°-80°)	7698.4	46.3			G4/12000
FVH	(80°-90°)	224.5	1.3			G2/225
BL	(0°-30°)	501.9	3.0	B2/1000		
BM	(30°-60°)	759.8	4.6	B1/1000		
BH	(60°-80°)	130.3	0.8	B1/500		G1/500
BVH	(80°-90°)	0.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2
2.5°	2480.2	2505.7	2501.9	2510.8	2532.5	2541.5	2565.7	2592.5	2629.5	2655.1	2671.7
5°	2221.1	2240.2	2242.8	2287.4	2309.1	2333.4	2404.9	2482.7	2569.5	2638.5	2684.4
7.5°	1944.1	1954.3	1974.7	2033.4	2088.3	2112.6	2221.1	2356.4	2492.9	2621.9	2704.8
10°	1715.6	1727.1	1764.1	1826.6	1877.7	1909.6	2060.2	2230.0	2421.5	2612.9	2734.2
12.5°	1585.4	1591.8	1605.8	1662.0	1727.1	1761.5	1923.6	2117.7	2364.0	2616.8	2784.0
15°	1576.4	1573.9	1557.3	1580.3	1639.0	1674.7	1833.0	2041.1	2313.0	2629.5	2842.7
17.5°	1623.7	1617.3	1577.7	1577.7	1626.2	1655.6	1794.7	2000.2	2287.4	2658.9	2925.7
20°	1696.4	1686.2	1621.1	1616.0	1663.2	1693.9	1817.7	2002.8	2292.5	2713.8	3036.7
22.5°	1788.3	1776.8	1678.6	1681.1	1732.2	1762.8	1884.1	2048.7	2324.5	2781.4	3155.4
25°	1908.3	1895.6	1779.4	1774.3	1827.9	1854.7	1982.4	2130.4	2369.1	2865.7	3311.2
27.5°	2067.9	2041.1	1901.9	1894.3	1951.7	1986.2	2101.1	2240.2	2448.3	2981.8	3520.5
30°	2199.4	2170.0	2037.2	2016.8	2078.1	2104.9	2223.6	2388.3	2604.0	3184.8	3810.3
32.5°	2371.7	2328.3	2172.6	2118.9	2184.0	2218.5	2401.0	2664.0	2835.0	3399.2	4154.9
35°	2759.7	2732.9	2542.7	2355.1	2351.3	2394.7	2662.7	2942.3	3072.5	3733.7	4624.6
37.5°	3315.0	3295.8	3094.2	2842.7	2769.9	2749.5	2980.6	3248.6	3451.6	4193.2	5171.0
40°	3959.6	3914.9	3729.8	3516.7	3422.2	3362.2	3355.8	3704.3	3946.8	4817.4	5740.3
42.5°	4421.7	4340.0	4115.3	4100.0	4079.6	4017.0	3835.8	4370.6	4586.4	5488.8	6349.2
45°	4906.7	4782.9	4448.5	4391.1	4383.4	4379.6	4560.8	5159.5	5283.3	6216.4	6974.6
47.5°	5283.3	5185.0	4910.6	4885.0	4917.0	5003.8	5519.5	5996.9	5971.3	6864.9	7499.3
50°	5785.0	5710.9	5405.8	5454.4	5619.0	5760.7	6600.6	6909.5	6536.8	7375.4	7880.9
52.5°	6377.2	6240.7	5957.3	6088.8	6341.5	6577.6	7748.2	7708.6	6933.8	7759.7	8165.6
55°	6890.4	6793.4	6696.4	6832.9	7210.8	7505.6	8784.7	8307.3	7222.3	8068.6	8290.7
57.5°	7758.4	7735.4	7635.8	7775.0	8233.2	8539.6	9712.7	8771.9	7407.4	8229.4	8143.9
60°	9042.5	9005.5	8820.4	8997.8	9595.2	10076.4	10567.9	9189.3	7449.5	8166.8	7721.4
62.5°	10587.0	10460.7	10302.4	10564.1	11383.6	11595.4	11373.3	9436.9	7292.5	7669.0	6702.7
65°	12029.4	11899.2	11903.1	12454.5	13346.8	13491.0	12312.8	9399.9	6832.9	6421.9	4943.8
67.5°	13133.6	13111.9	13267.6	14343.7	15510.4	15410.8	13152.7	8845.9	5470.9	4162.6	2627.0
70°	13189.8	13231.9	13678.6	15495.1	16679.6	16521.3	13081.3	7190.4	3410.7	1914.7	1035.2
71°	12510.7	12794.1	13411.9	15459.3	16748.6	16543.0	12478.8	6022.4	2501.9	1335.2	746.7
72.5°	10661.1	10810.4	12145.6	14549.2	16203.5	15764.4	10950.8	4221.3	1602.0	816.9	428.9
75°	5871.8	6239.4	8133.7	11414.2	12960.0	12574.5	7136.7	2005.3	799.1	446.8	177.4
77.5°	2795.5	2724.0	3968.5	6788.3	8787.2	8766.8	3595.8	891.0	465.9	302.5	89.4
80°	799.1	898.6	1519.0	3226.9	4878.7	4932.3	1381.1	430.2	322.9	236.1	46.0
82.5°	241.3	246.4	557.8	1427.1	2426.6	2287.4	518.2	219.6	232.3	187.6	26.8
85°	42.1	52.3	164.7	502.9	925.4	702.1	130.2	104.7	153.2	123.8	15.3
87.5°	2.6	3.8	54.9	57.4	81.7	47.2	23.0	15.3	33.2	33.2	8.9
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°	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2
2.5°	2683.1	2690.8	2685.7	2674.2	2655.1	2632.1	2601.4	2575.9	2554.2	2542.7	2556.8
5°	2699.7	2709.9	2684.4	2627.0	2540.2	2445.7	2338.5	2255.5	2190.4	2170.0	2162.3
7.5°	2725.3	2731.6	2662.7	2535.1	2351.3	2127.9	1932.6	1767.9	1640.3	1602.0	1545.8
10°	2758.4	2754.6	2624.4	2387.0	2064.1	1728.3	1425.8	1201.2	1031.4	970.1	965.0
12.5°	2809.5	2789.1	2575.9	2185.3	1722.0	1282.9	908.8	711.0	603.8	568.0	560.4
15°	2873.3	2824.8	2499.3	1949.2	1318.6	828.4	560.4	500.4	486.3	483.8	481.2
17.5°	2948.6	2872.1	2398.5	1659.4	926.7	537.4	468.5	467.2	468.5	465.9	464.6
20°	3050.8	2921.8	2278.5	1316.0	612.7	453.1	446.8	446.8	448.0	446.8	446.8
22.5°	3159.3	2980.6	2130.4	1004.6	462.1	430.2	428.9	431.4	434.0	432.7	432.7
25°	3293.3	3057.1	1935.1	688.0	413.6	411.0	412.3	417.4	422.5	423.8	422.5
27.5°	3487.3	3151.6	1725.8	473.6	379.1	381.7	394.4	407.2	414.9	416.1	416.1
30°	3705.6	3256.3	1452.6	384.2	351.0	351.0	366.3	390.6	407.2	409.7	411.0
32.5°	3986.4	3377.5	1150.1	345.9	324.2	321.7	335.7	365.1	395.7	404.6	404.6
35°	4333.6	3520.5	855.2	321.7	305.1	298.7	306.4	330.6	370.2	395.7	398.3
37.5°	4740.8	3655.8	625.5	300.0	287.2	278.3	283.4	302.5	334.4	372.7	382.9
40°	5117.4	3775.8	467.2	282.1	269.3	263.0	266.8	275.7	302.5	338.3	344.6
42.5°	5528.4	3869.0	371.5	263.0	251.5	248.9	248.9	252.7	270.6	291.0	292.3
45°	5938.1	3902.2	311.5	240.0	232.3	234.9	233.6	231.0	238.7	236.1	236.1
47.5°	6230.4	3862.6	257.8	218.3	218.3	222.1	215.7	206.8	203.0	187.6	188.9
50°	6430.9	3718.4	211.9	192.7	203.0	208.1	195.3	181.3	167.2	150.6	146.8
52.5°	6513.8	3461.8	173.6	159.6	180.0	186.4	171.0	154.5	132.8	118.7	114.9
55°	6460.2	3145.2	144.2	130.2	151.9	159.6	144.2	125.1	100.8	85.5	83.0
57.5°	6224.1	2767.4	122.5	103.4	121.3	126.4	116.2	95.7	71.5	56.2	56.2
60°	5815.6	2376.8	99.6	81.7	90.6	98.3	88.1	68.9	48.5	34.5	31.9
62.5°	4987.2	1930.0	80.4	63.8	63.8	70.2	61.3	49.8	30.6	17.9	16.6
65°	3600.9	1323.7	63.8	47.2	46.0	46.0	38.3	33.2	17.9	7.7	5.1
67.5°	1956.8	746.7	51.1	35.7	31.9	30.6	24.3	19.1	7.7	1.3	0.0
70°	769.7	287.2	39.6	24.3	20.4	19.1	12.8	8.9	5.1	0.0	0.0
71°	522.1	197.9	34.5	20.4	16.6	14.0	10.2	7.7	3.8	0.0	0.0
72.5°	298.7	122.5	26.8	15.3	12.8	10.2	7.7	5.1	3.8	0.0	0.0
75°	130.2	62.5	16.6	11.5	8.9	6.4	5.1	3.8	1.3	0.0	0.0
77.5°	66.4	34.5	11.5	8.9	5.1	3.8	2.6	1.3	0.0	0.0	0.0
80°	37.0	17.9	7.7	5.1	3.8	2.6	1.3	1.3	0.0	0.0	0.0
82.5°	20.4	10.2	3.8	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.8	6.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	2.6	0.0	0.0	0.0	0.0	1.3	1.3	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)