

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: P458857

Luminaire Tested: **GALN-SA3D-735-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458857
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-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 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: 15491 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

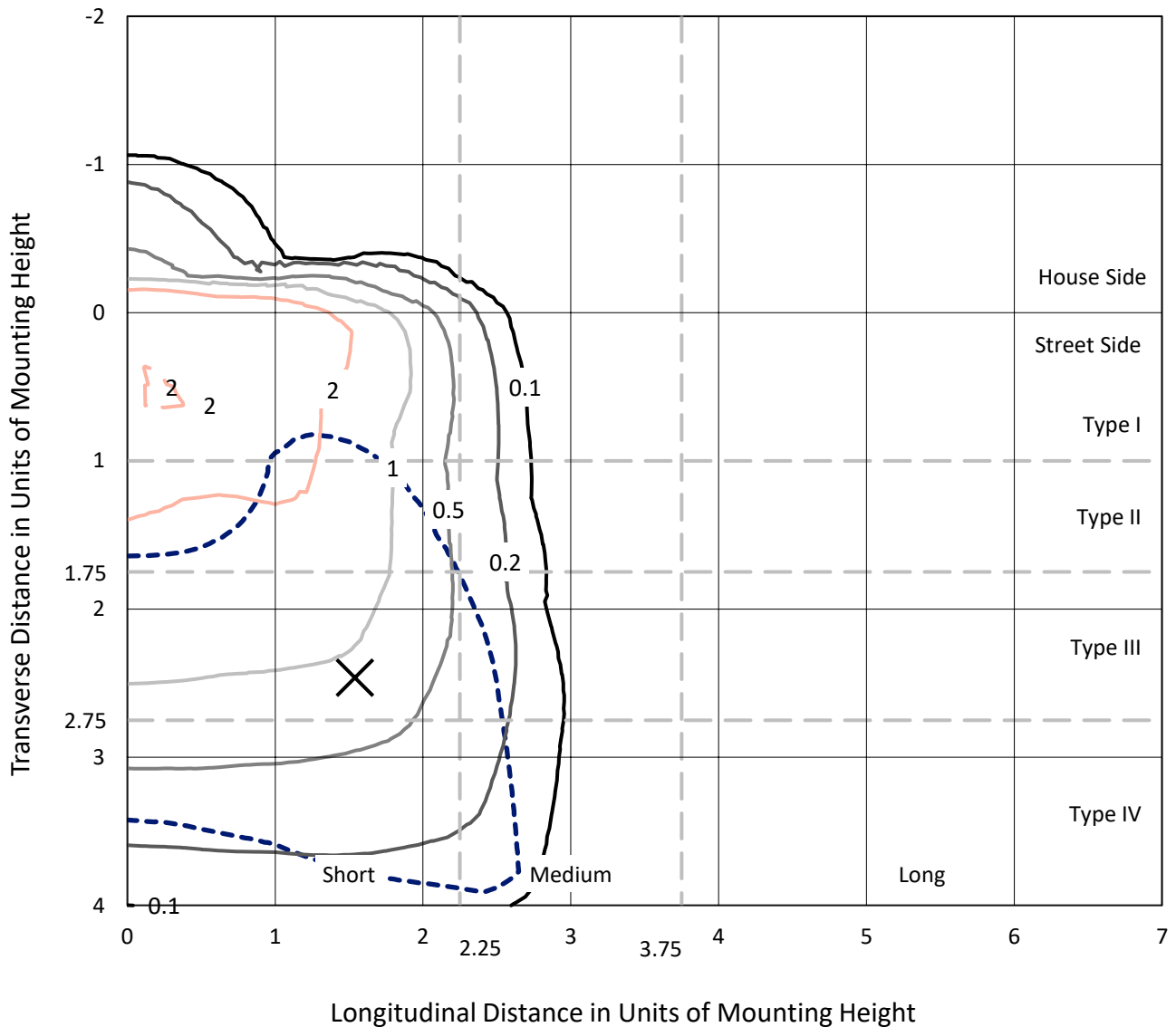
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

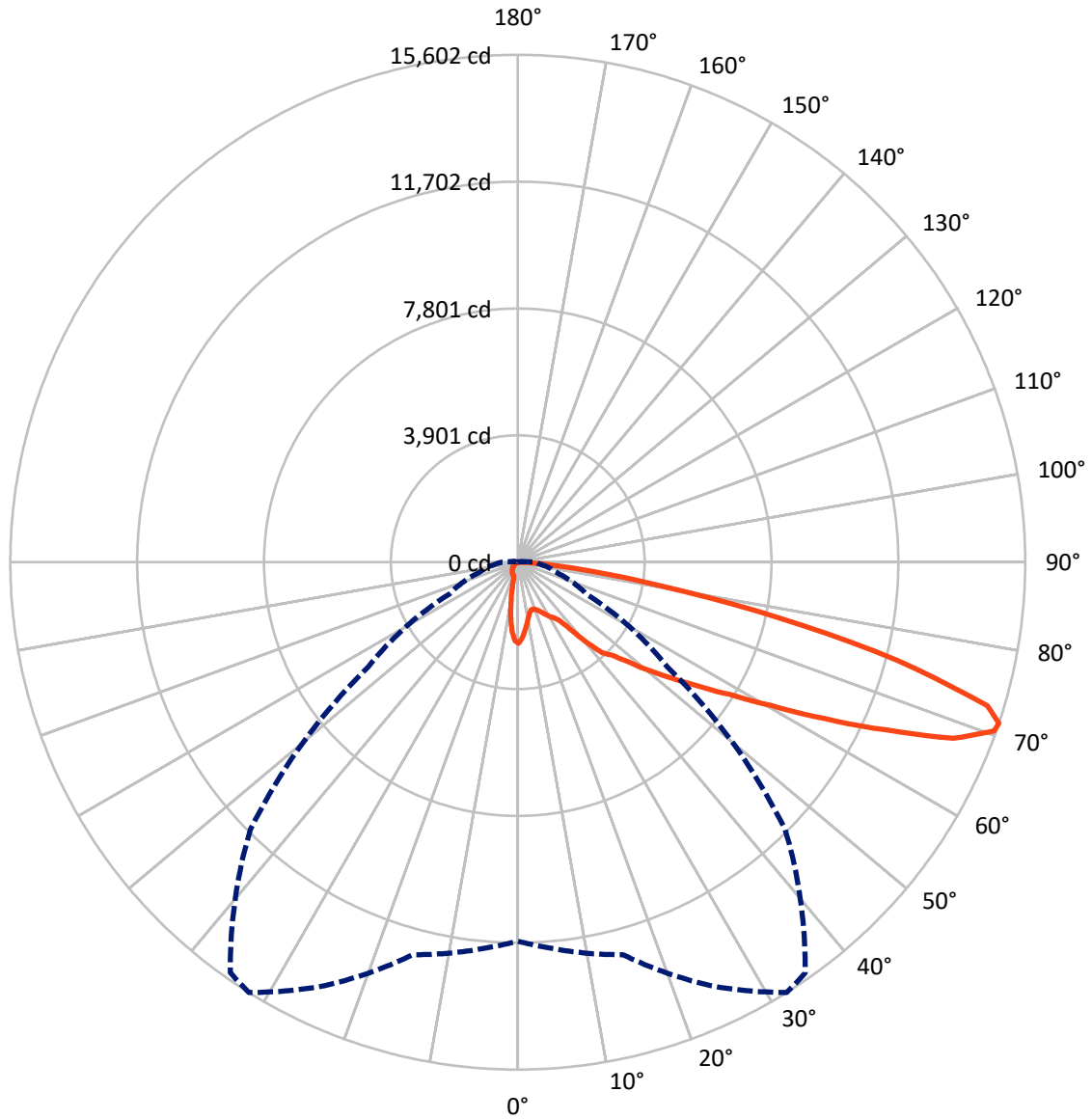
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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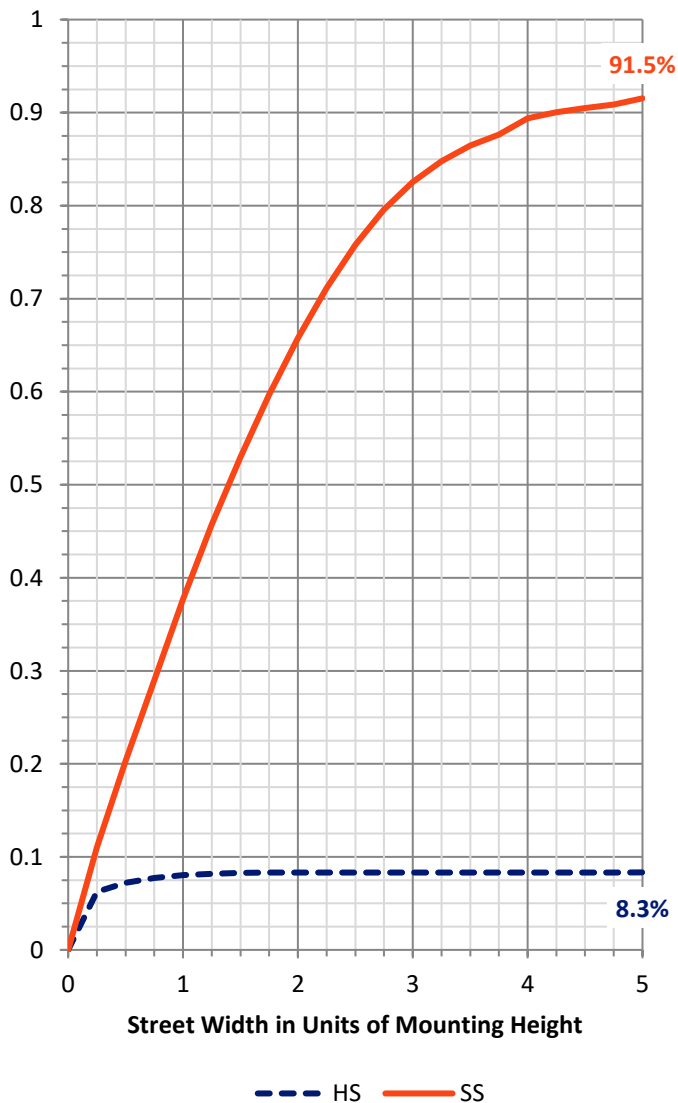
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1297.5	0.0	1297.5
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	14193.5	0.0	14193.5
	% Fixture	91.6	0.0	91.6
Total	Lumens	15491.0	0.0	15491.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.6	1.3
10°-20°	439.6	2.8
20°-30°	683.9	4.4
30°-40°	1139.4	7.4
40°-50°	2119.5	13.7
50°-60°	3403.0	22.0
60°-70°	4577.2	29.5
70°-80°	2715.7	17.5
80°-90°	209.9	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°	15491.0	100.0
0°-180°	15491.0	100.0

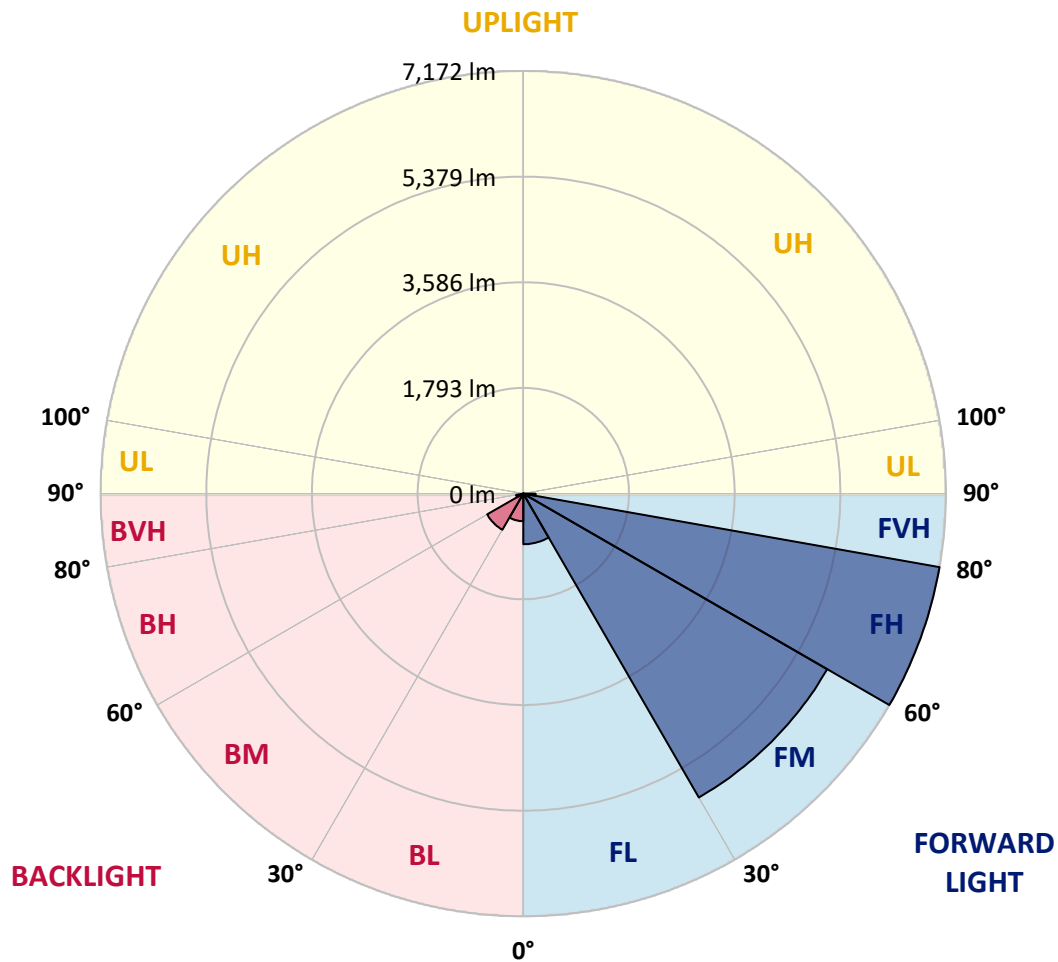


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	858.6	5.5			
FM (30°-60°)	5954.2	38.4			
FH (60°-80°)	7171.6	46.3			G3/7500
FVH (80°-90°)	209.1	1.3			G2/225
BL (0°-30°)	467.5	3.0	B1/500		
BM (30°-60°)	707.8	4.6	B1/1000		
BH (60°-80°)	121.4	0.8	B1/500		G1/500
BVH (80°-90°)	0.8	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	2491.2	2491.2	2491.2	2491.2	2491.2	2491.2	2491.2	2491.2	2491.2	2491.2	2491.2
2.5°	2310.4	2334.2	2330.7	2339.0	2359.2	2367.5	2390.1	2415.1	2449.6	2473.4	2488.8
5°	2069.1	2086.9	2089.3	2130.9	2151.1	2173.7	2240.3	2312.8	2393.7	2457.9	2500.7
7.5°	1811.0	1820.5	1839.6	1894.3	1945.4	1968.0	2069.1	2195.1	2322.3	2442.4	2519.7
10°	1598.2	1608.9	1643.4	1701.6	1749.2	1778.9	1919.2	2077.4	2255.8	2434.1	2547.1
12.5°	1476.9	1482.8	1495.9	1548.2	1608.9	1641.0	1792.0	1972.7	2202.2	2437.7	2593.5
15°	1468.6	1466.2	1450.7	1472.1	1526.8	1560.1	1707.6	1901.4	2154.7	2449.6	2648.2
17.5°	1512.6	1506.6	1469.7	1469.7	1514.9	1542.3	1671.9	1863.3	2130.9	2476.9	2725.5
20°	1580.3	1570.8	1510.2	1505.4	1549.4	1578.0	1693.3	1865.7	2135.6	2528.1	2828.9
22.5°	1665.9	1655.2	1563.7	1566.1	1613.6	1642.2	1755.1	1908.5	2165.4	2591.1	2939.5
25°	1777.7	1765.8	1657.6	1652.9	1702.8	1727.8	1846.7	1984.6	2207.0	2669.6	3084.6
27.5°	1926.4	1901.4	1771.8	1764.6	1818.2	1850.3	1957.3	2086.9	2280.7	2777.8	3279.6
30°	2048.8	2021.5	1897.8	1878.8	1935.9	1960.8	2071.4	2224.8	2425.8	2966.8	3549.5
32.5°	2209.4	2168.9	2023.9	1973.9	2034.6	2066.7	2236.7	2481.7	2641.0	3166.6	3870.6
35°	2570.9	2545.9	2368.7	2193.9	2190.3	2230.8	2480.5	2740.9	2862.2	3478.2	4308.2
37.5°	3088.1	3070.3	2882.4	2648.2	2580.4	2561.4	2776.6	3026.3	3215.4	3906.2	4817.1
40°	3688.6	3647.0	3474.6	3276.0	3188.0	3132.1	3126.2	3450.8	3676.7	4487.7	5347.4
42.5°	4119.1	4043.0	3833.7	3819.4	3800.4	3742.1	3573.3	4071.5	4272.5	5113.2	5914.7
45°	4571.0	4455.6	4144.1	4090.6	4083.4	4079.9	4248.7	4806.4	4921.7	5791.0	6497.3
47.5°	4921.7	4830.2	4574.5	4550.7	4580.5	4661.3	5141.7	5586.5	5562.7	6395.1	6986.0
50°	5389.1	5320.1	5035.9	5081.1	5234.5	5366.5	6148.9	6436.7	6089.5	6870.7	7341.6
52.5°	5940.8	5813.6	5549.6	5672.1	5907.5	6127.5	7217.9	7181.1	6459.3	7228.6	7606.8
55°	6418.8	6328.5	6238.1	6365.3	6717.3	6992.0	8183.5	7738.8	6728.0	7516.4	7723.3
57.5°	7227.4	7206.0	7113.3	7242.9	7669.8	7955.2	9048.0	8171.6	6900.4	7666.2	7586.6
60°	8423.7	8389.2	8216.8	8382.1	8938.6	9386.9	9844.7	8560.4	6939.7	7608.0	7193.0
62.5°	9862.5	9744.8	9597.3	9841.1	10604.5	10801.9	10595.0	8791.1	6793.4	7144.2	6244.0
65°	11206.2	11084.9	11088.5	11602.2	12433.4	12567.8	11470.2	8756.6	6365.3	5982.4	4605.4
67.5°	12234.8	12214.6	12359.7	13362.1	14448.9	14356.2	12252.6	8240.6	5096.5	3877.7	2447.2
70°	12287.1	12326.4	12742.6	14434.7	15538.2	15390.7	12186.0	6698.3	3177.3	1783.7	964.4
71°	11654.5	11918.5	12494.0	14401.4	15602.4	15410.9	11624.8	5610.2	2330.7	1243.8	695.6
72.5°	9931.5	10070.6	11314.4	13553.5	15094.6	14685.6	10201.4	3932.4	1492.3	761.0	399.5
75°	5469.9	5812.4	7577.0	10633.1	12073.1	11714.0	6648.3	1868.1	744.4	416.2	165.3
77.5°	2604.2	2537.6	3697.0	6323.7	8185.9	8166.8	3349.7	830.0	434.0	281.8	83.2
80°	744.4	837.1	1415.0	3006.1	4544.8	4594.7	1286.6	400.7	300.8	220.0	42.8
82.5°	224.7	229.5	519.6	1329.4	2260.5	2130.9	482.8	204.5	216.4	174.8	25.0
85°	39.2	48.8	153.4	468.5	862.1	654.0	121.3	97.5	142.7	115.3	14.3
87.5°	2.4	3.6	51.1	53.5	76.1	44.0	21.4	14.3	30.9	30.9	8.3
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°	2491.2	2491.2	2491.2	2491.2	2491.2	2491.2	2491.2	2491.2	2491.2	2491.2	2491.2
2.5°	2499.5	2506.7	2501.9	2491.2	2473.4	2452.0	2423.4	2399.6	2379.4	2368.7	2381.8
5°	2515.0	2524.5	2500.7	2447.2	2366.3	2278.3	2178.5	2101.2	2040.5	2021.5	2014.4
7.5°	2538.8	2544.7	2480.5	2361.6	2190.3	1982.3	1800.3	1646.9	1528.0	1492.3	1440.0
10°	2569.7	2566.1	2444.8	2223.6	1922.8	1610.1	1328.2	1119.0	960.8	903.7	899.0
12.5°	2617.2	2598.2	2399.6	2035.8	1604.1	1195.1	846.6	662.3	562.5	529.2	522.0
15°	2676.7	2631.5	2328.3	1815.8	1228.4	771.7	522.0	466.1	453.1	450.7	448.3
17.5°	2746.9	2675.5	2234.3	1545.8	863.3	500.6	436.4	435.2	436.4	434.0	432.8
20°	2842.0	2721.9	2122.6	1226.0	570.8	422.1	416.2	416.2	417.4	416.2	416.2
22.5°	2943.1	2776.6	1984.6	935.8	430.5	400.7	399.5	401.9	404.3	403.1	403.1
25°	3067.9	2847.9	1802.7	640.9	385.3	382.9	384.1	388.8	393.6	394.8	393.6
27.5°	3248.7	2935.9	1607.7	441.2	353.2	355.5	367.4	379.3	386.5	387.7	387.7
30°	3452.0	3033.4	1353.2	357.9	327.0	327.0	341.3	363.9	379.3	381.7	382.9
32.5°	3713.6	3146.4	1071.4	322.3	302.0	299.7	312.7	340.1	368.6	376.9	376.9
35°	4037.0	3279.6	796.7	299.7	284.2	278.3	285.4	308.0	344.8	368.6	371.0
37.5°	4416.4	3405.6	582.7	279.4	267.6	259.2	264.0	281.8	311.5	347.2	356.7
40°	4767.2	3517.4	435.2	262.8	250.9	245.0	248.5	256.8	281.8	315.1	321.1
42.5°	5150.1	3604.2	346.0	245.0	234.3	231.9	231.9	235.4	252.1	271.1	272.3
45°	5531.8	3635.1	290.1	223.6	216.4	218.8	217.6	215.2	222.4	220.0	220.0
47.5°	5804.1	3598.3	240.2	203.3	203.3	206.9	201.0	192.6	189.1	174.8	176.0
50°	5990.8	3463.9	197.4	179.6	189.1	193.8	181.9	168.9	155.8	140.3	136.7
52.5°	6068.1	3224.9	161.7	148.6	167.7	173.6	159.3	143.9	123.7	110.6	107.0
55°	6018.1	2930.0	134.4	121.3	141.5	148.6	134.4	116.5	93.9	79.7	77.3
57.5°	5798.1	2578.0	114.2	96.3	113.0	117.7	108.2	89.2	66.6	52.3	52.3
60°	5417.6	2214.1	92.8	76.1	84.4	91.6	82.0	64.2	45.2	32.1	29.7
62.5°	4645.9	1797.9	74.9	59.5	59.5	65.4	57.1	46.4	28.5	16.6	15.5
65°	3354.5	1233.1	59.5	44.0	42.8	42.8	35.7	30.9	16.6	7.1	4.8
67.5°	1822.9	695.6	47.6	33.3	29.7	28.5	22.6	17.8	7.1	1.2	0.0
70°	717.0	267.6	36.9	22.6	19.0	17.8	11.9	8.3	4.8	0.0	0.0
71°	486.3	184.3	32.1	19.0	15.5	13.1	9.5	7.1	3.6	0.0	0.0
72.5°	278.3	114.2	25.0	14.3	11.9	9.5	7.1	4.8	3.6	0.0	0.0
75°	121.3	58.3	15.5	10.7	8.3	5.9	4.8	3.6	1.2	0.0	0.0
77.5°	61.8	32.1	10.7	8.3	4.8	3.6	2.4	1.2	0.0	0.0	0.0
80°	34.5	16.6	7.1	4.8	3.6	2.4	1.2	1.2	0.0	0.0	0.0
82.5°	19.0	9.5	3.6	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.9	5.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	2.4	0.0	0.0	0.0	0.0	1.2	1.2	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)