

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: P452819

Luminaire Tested: **GALN-SA3D-740-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
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-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18489 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

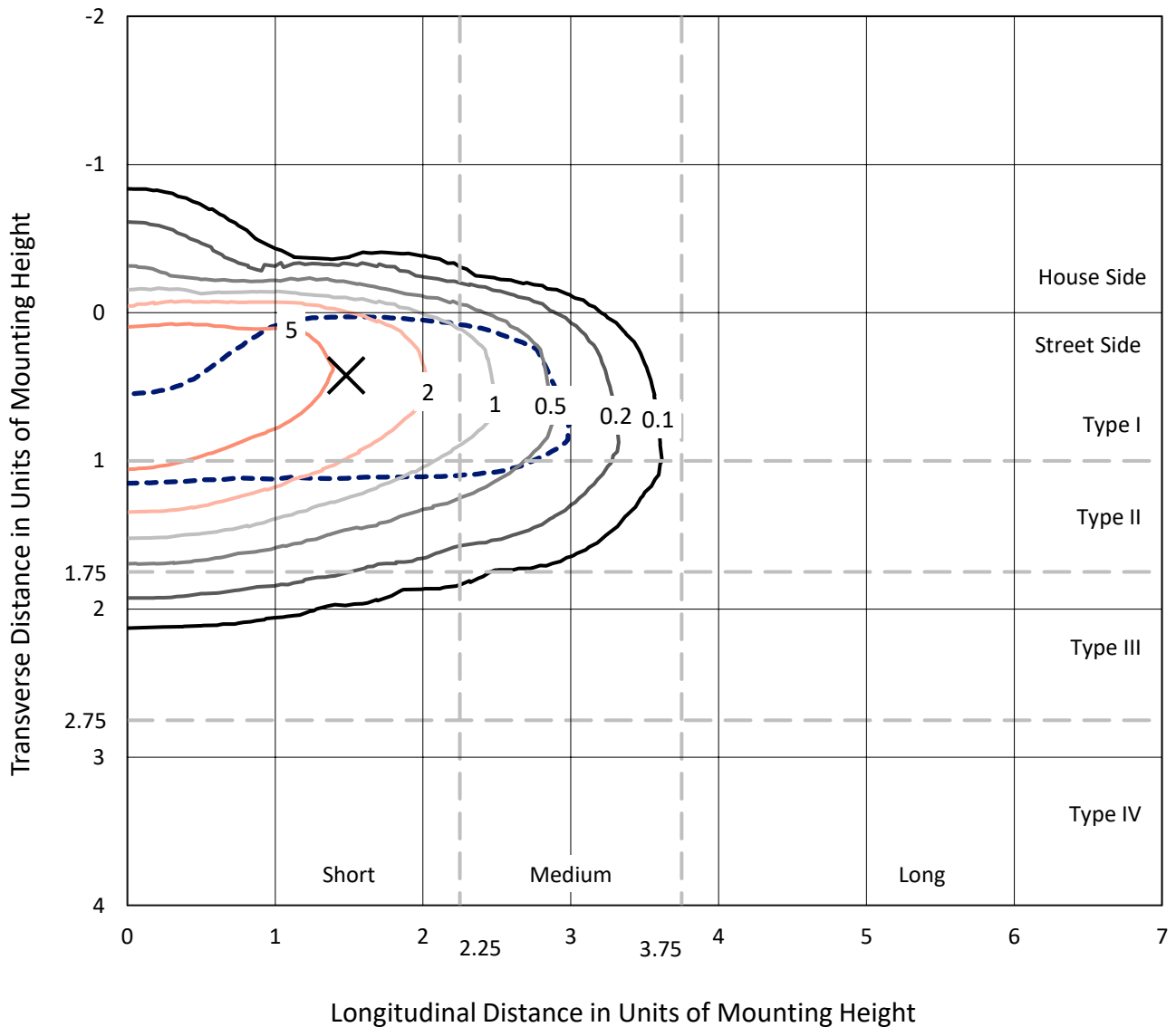
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

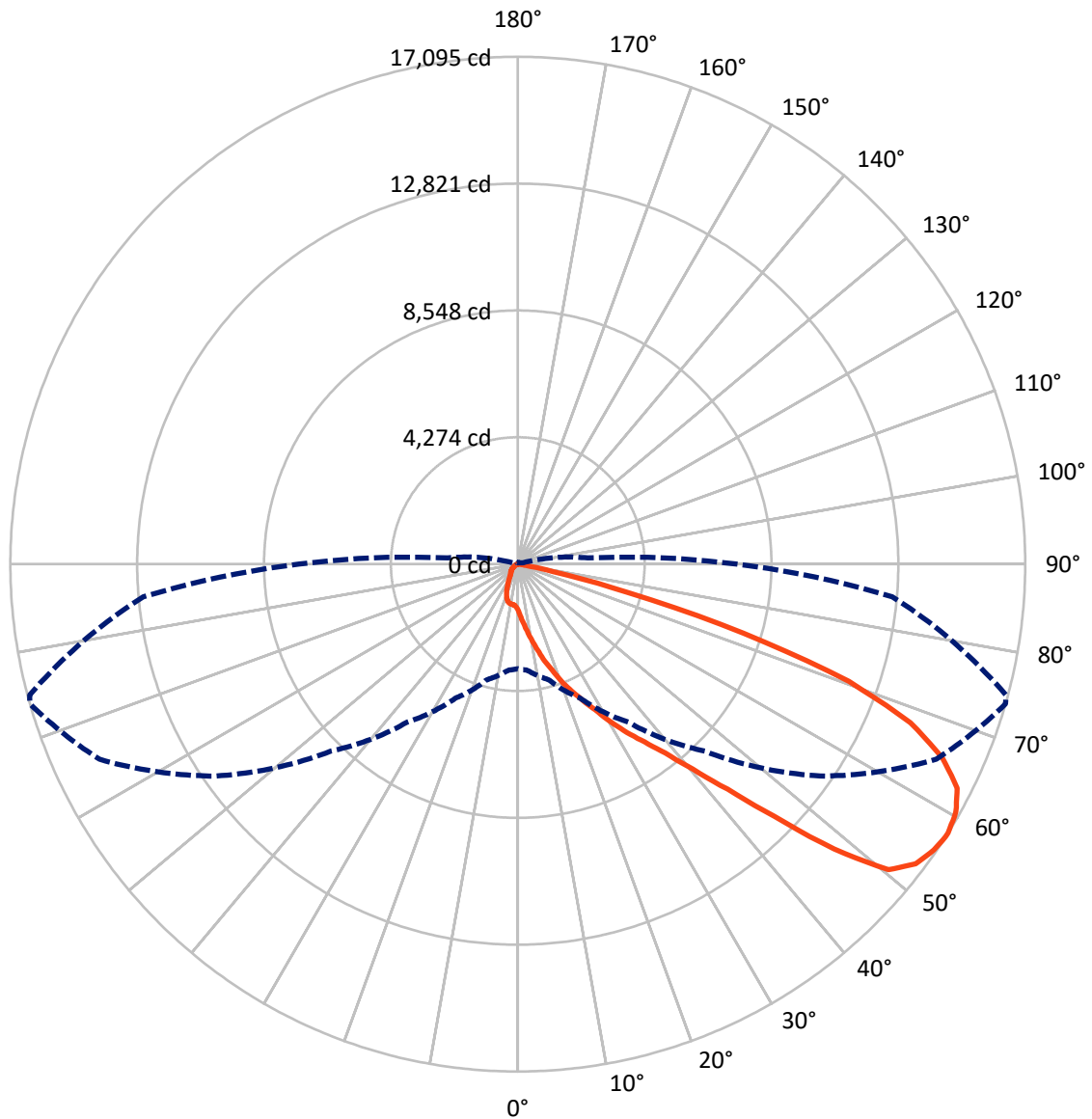
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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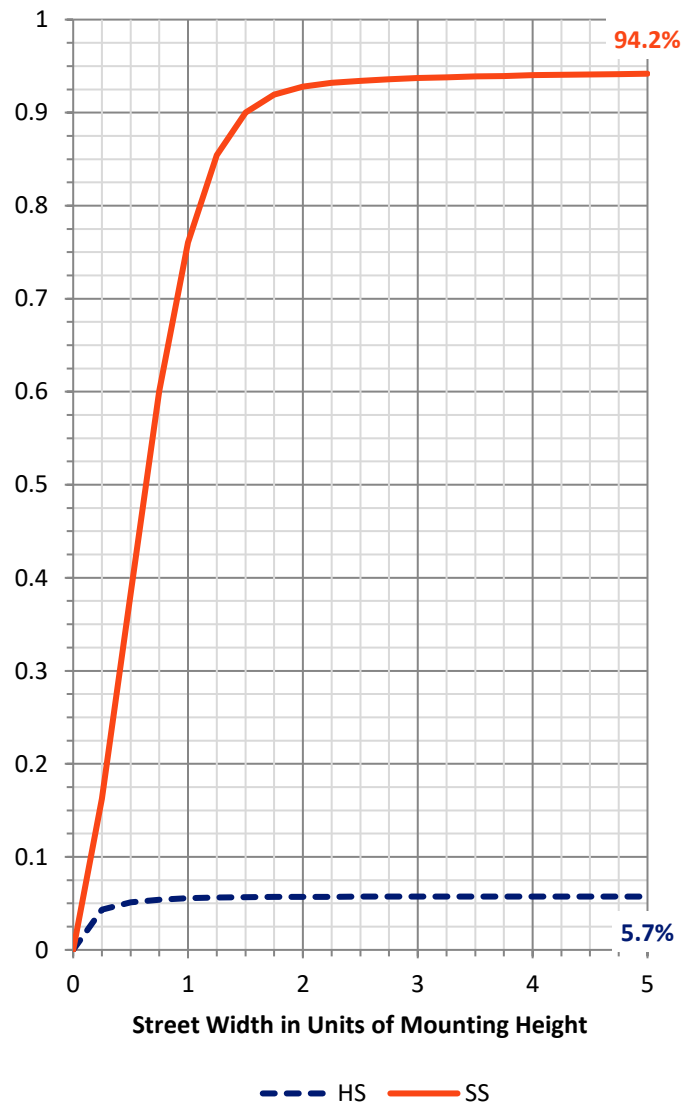
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1066.4	0.0	1066.4
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	17422.6	0.0	17422.6
	% Fixture	94.2	0.0	94.2
Total	Lumens	18489.0	0.0	18489.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.9	1.0
10°-20°	736.7	4.0
20°-30°	1576.3	8.5
30°-40°	2897.3	15.7
40°-50°	4441.5	24.0
50°-60°	4698.5	25.4
60°-70°	3068.3	16.6
70°-80°	838.4	4.5
80°-90°	45.1	0.2
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°	18489.0	100.0
0°-180°	18489.0	100.0



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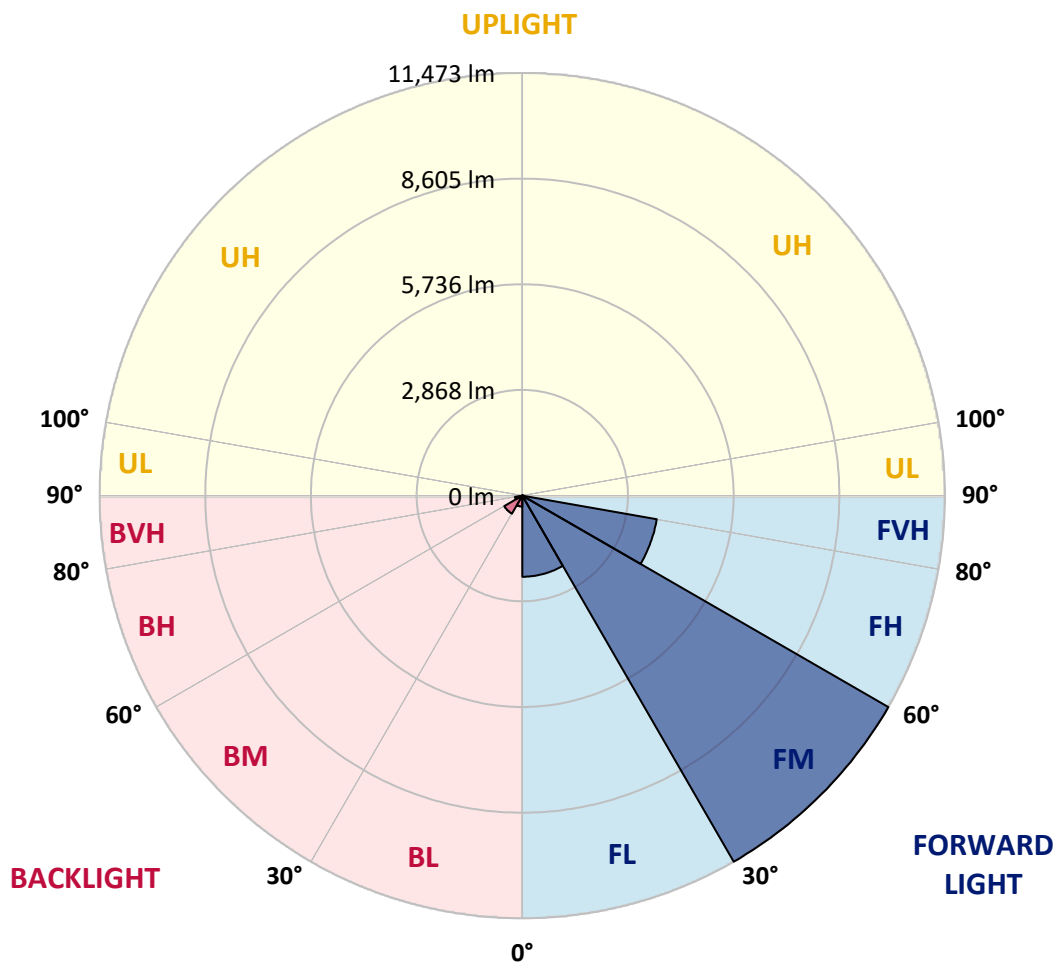
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2202.0	11.9			
FM	(30°-60°)	11472.8	62.1			
FH	(60°-80°)	3706.4	20.0			G2/5000
FVH	(80°-90°)	41.4	0.2			G1/100
BL	(0°-30°)	297.9	1.6	B1/500		
BM	(30°-60°)	564.6	3.1	B1/1000		
BH	(60°-80°)	200.2	1.1	B1/500		G1/500
BVH	(80°-90°)	3.7	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1548.4	1548.4	1548.4	1548.4	1548.4	1548.4	1548.4	1548.4	1548.4	1548.4	1548.4
2.5°	2265.8	2245.4	2204.6	2190.5	2130.5	2037.3	1955.6	1845.9	1759.1	1750.1	1645.4
5°	3034.3	2988.4	2969.2	2877.3	2733.0	2597.7	2365.4	2189.2	1986.3	1971.0	1760.3
7.5°	3774.7	3710.9	3691.7	3604.9	3436.4	3223.2	2922.0	2601.6	2279.9	2250.5	1914.8
10°	4310.8	4319.8	4285.3	4227.9	4091.3	3874.3	3502.8	3064.9	2606.7	2569.7	2088.4
12.5°	4695.1	4693.8	4700.2	4698.9	4626.1	4461.5	4070.9	3566.6	2966.7	2893.9	2287.5
15°	4945.3	4949.1	4968.3	5034.6	5042.3	4940.2	4614.7	4046.6	3384.1	3293.4	2503.3
17.5°	5198.0	5224.8	5255.5	5318.0	5374.2	5333.3	5103.6	4547.0	3761.9	3694.3	2734.3
20°	5615.5	5652.5	5634.6	5672.9	5702.3	5706.1	5528.6	5009.1	4220.2	4106.6	2998.6
22.5°	6283.1	6281.8	6235.8	6166.9	6109.5	6106.9	5946.1	5484.0	4636.4	4526.6	3264.1
25°	7126.9	7130.7	7041.3	6844.7	6701.8	6526.9	6341.8	5900.1	5081.9	4946.5	3543.6
27.5°	8094.5	8070.2	7934.9	7664.3	7380.9	7082.2	6815.4	6383.9	5554.2	5441.8	3864.1
30°	8963.8	8954.9	8796.6	8465.9	8093.2	7793.2	7406.4	6990.3	6165.6	6027.8	4222.8
32.5°	9773.1	9785.9	9566.3	9224.2	8864.2	8518.3	8109.8	7569.8	6765.6	6570.3	4613.4
35°	10405.0	10417.8	10190.5	9905.9	9535.7	9248.5	8859.1	8187.7	7357.9	7193.2	5062.7
37.5°	10742.0	10758.6	10627.1	10412.6	10181.6	10037.3	9674.8	8982.9	8077.9	7978.3	5593.8
40°	10805.8	10825.0	10767.5	10710.1	10697.3	10800.7	10694.8	9919.9	9076.1	8920.4	6385.2
42.5°	10614.3	10639.9	10665.4	10793.1	11053.5	11432.6	11801.5	11191.3	10361.6	10152.2	7352.8
45°	10111.4	10108.8	10209.7	10540.3	11123.7	11933.0	12958.0	12783.2	12113.0	11864.1	8720.0
47.5°	9251.0	9238.2	9456.5	9927.6	10836.5	12024.9	13901.4	14715.8	14348.2	14118.4	10189.3
50°	7940.0	8002.6	8345.9	9003.4	10122.9	11746.6	14192.4	15983.4	16182.6	15938.7	11376.4
52.5°	6404.3	6401.8	6940.5	7832.8	9065.9	11133.9	13989.5	16213.2	16778.7	16592.3	11961.1
55°	4739.8	4772.9	5333.3	6233.3	7693.6	10015.6	13327.0	15977.0	17005.9	16874.4	12346.6
57°	3525.8	3584.5	4033.8	4986.1	6498.8	8908.9	12444.9	15554.5	17095.3	17023.8	12667.0
57.5°	3290.9	3293.4	3731.3	4596.8	6149.0	8483.8	12192.1	15378.3	17092.7	17053.2	12719.3
60°	2025.9	2089.7	2392.2	3107.1	4501.0	6621.4	10498.2	14366.1	16960.0	17017.4	12942.7
62.5°	1212.7	1239.5	1436.1	1872.7	2901.6	4832.9	8591.0	13070.4	16614.0	16788.9	12927.4
65°	780.0	786.3	875.7	1133.6	1813.9	3266.6	6620.1	11358.6	15719.2	16040.9	12421.9
67.5°	602.5	612.7	648.5	744.2	1051.9	2034.8	4682.3	9531.8	14271.6	14686.5	11196.4
70°	534.9	540.0	552.7	583.4	695.7	1148.9	2913.0	7446.0	11834.7	11952.1	8762.1
72.5°	436.6	450.6	490.2	500.4	551.5	717.4	1621.2	4997.6	7951.5	7980.9	4901.9
75°	338.3	340.8	399.6	428.9	464.7	494.0	723.8	2519.9	3819.4	3615.1	1889.3
77.5°	252.8	264.2	291.0	328.1	379.1	353.6	324.2	949.7	1185.9	1164.2	548.9
80°	162.1	168.5	203.0	246.4	294.9	231.1	182.5	278.3	260.4	268.1	131.5
82.5°	81.7	83.0	130.2	200.4	187.6	116.2	114.9	113.6	97.0	95.7	61.3
85°	8.9	19.1	84.3	114.9	84.3	38.3	53.6	52.3	51.1	52.3	35.7
87.5°	1.3	1.3	14.0	16.6	11.5	12.8	15.3	16.6	20.4	19.1	15.3
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°	1548.4	1548.4	1548.4	1548.4	1548.4	1548.4	1548.4	1548.4	1548.4	1548.4	1548.4
2.5°	1594.4	1543.3	1448.9	1358.2	1290.6	1247.2	1191.0	1170.6	1141.2	1137.4	1123.3
5°	1663.3	1566.3	1401.6	1271.4	1166.7	1087.6	1018.7	961.2	915.3	905.1	910.2
7.5°	1761.6	1617.4	1387.6	1210.1	1064.6	929.3	819.5	751.9	703.4	685.5	688.0
10°	1872.7	1685.0	1385.0	1145.0	922.9	757.0	637.0	577.0	548.9	538.7	527.2
12.5°	2004.2	1762.9	1378.7	1044.2	767.2	603.8	518.3	482.5	455.7	448.1	448.1
15°	2152.2	1845.9	1348.0	919.1	622.9	499.1	441.7	413.6	404.7	397.0	397.0
17.5°	2306.7	1927.6	1284.2	764.6	517.0	427.6	391.9	375.3	362.5	353.6	353.6
20°	2482.8	2008.0	1182.1	628.1	436.6	381.7	353.6	334.5	324.2	316.6	314.0
22.5°	2650.1	2073.1	1051.9	515.7	380.4	343.4	317.9	297.4	287.2	283.4	283.4
25°	2823.7	2112.7	894.8	426.4	347.2	311.5	283.4	266.8	257.9	255.3	254.0
27.5°	2992.2	2135.6	757.0	372.7	316.6	282.1	255.3	242.5	233.6	231.1	232.3
30°	3196.4	2139.5	622.9	334.5	289.8	254.0	229.8	218.3	213.2	210.6	209.4
32.5°	3403.2	2134.4	523.4	311.5	264.2	229.8	209.4	200.4	196.6	192.8	192.8
35°	3635.6	2107.5	445.5	288.5	240.0	209.4	191.5	183.8	178.7	174.9	173.6
37.5°	3924.1	2093.5	400.8	263.0	218.3	190.2	173.6	165.9	162.1	157.0	155.7
40°	4378.5	2156.1	386.8	240.0	196.6	172.3	157.0	148.1	143.0	137.9	136.6
42.5°	4945.3	2265.8	363.8	217.0	177.4	155.7	140.4	130.2	121.3	114.9	112.3
45°	5679.3	2410.1	328.1	192.8	160.8	137.9	123.8	111.1	99.6	94.5	93.2
47.5°	6449.0	2549.2	296.2	173.6	143.0	122.5	107.2	93.2	83.0	79.1	77.9
50°	6921.3	2577.3	275.7	151.9	125.1	106.0	90.6	77.9	71.5	67.7	67.7
52.5°	7137.1	2532.6	247.6	132.8	108.5	93.2	77.9	67.7	63.8	61.3	60.0
55°	7287.7	2463.7	210.6	114.9	93.2	79.1	68.9	61.3	56.2	53.6	52.3
57°	7375.8	2370.5	182.5	100.8	80.4	68.9	61.3	54.9	49.8	44.7	44.7
57.5°	7379.6	2334.8	174.9	99.6	76.6	66.4	60.0	53.6	47.2	42.1	40.8
60°	7266.0	2089.7	140.4	84.3	61.3	56.2	49.8	42.1	33.2	28.1	26.8
62.5°	6900.9	1778.2	116.2	71.5	49.8	43.4	35.7	31.9	23.0	16.6	16.6
65°	6348.2	1442.5	99.6	57.4	40.8	31.9	24.3	23.0	14.0	7.7	6.4
67.5°	5549.1	1123.3	84.3	47.2	34.5	23.0	16.6	15.3	7.7	2.6	0.0
70°	4227.9	765.9	70.2	38.3	25.5	16.6	11.5	8.9	5.1	1.3	0.0
72.5°	2436.9	421.3	58.7	29.4	19.1	12.8	8.9	5.1	5.1	0.0	0.0
75°	870.6	181.3	44.7	21.7	15.3	10.2	6.4	2.6	3.8	1.3	0.0
77.5°	277.0	97.0	29.4	16.6	12.8	7.7	5.1	2.6	2.6	1.3	0.0
80°	81.7	51.1	17.9	14.0	8.9	6.4	3.8	1.3	2.6	1.3	0.0
82.5°	44.7	25.5	14.0	10.2	8.9	5.1	3.8	1.3	1.3	1.3	0.0
85°	23.0	15.3	11.5	10.2	8.9	5.1	3.8	1.3	0.0	1.3	1.3
87.5°	12.8	11.5	11.5	10.2	8.9	6.4	3.8	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)