

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: P647345

Luminaire Tested: **GALN-SA3D-835-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647345
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13517.7 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

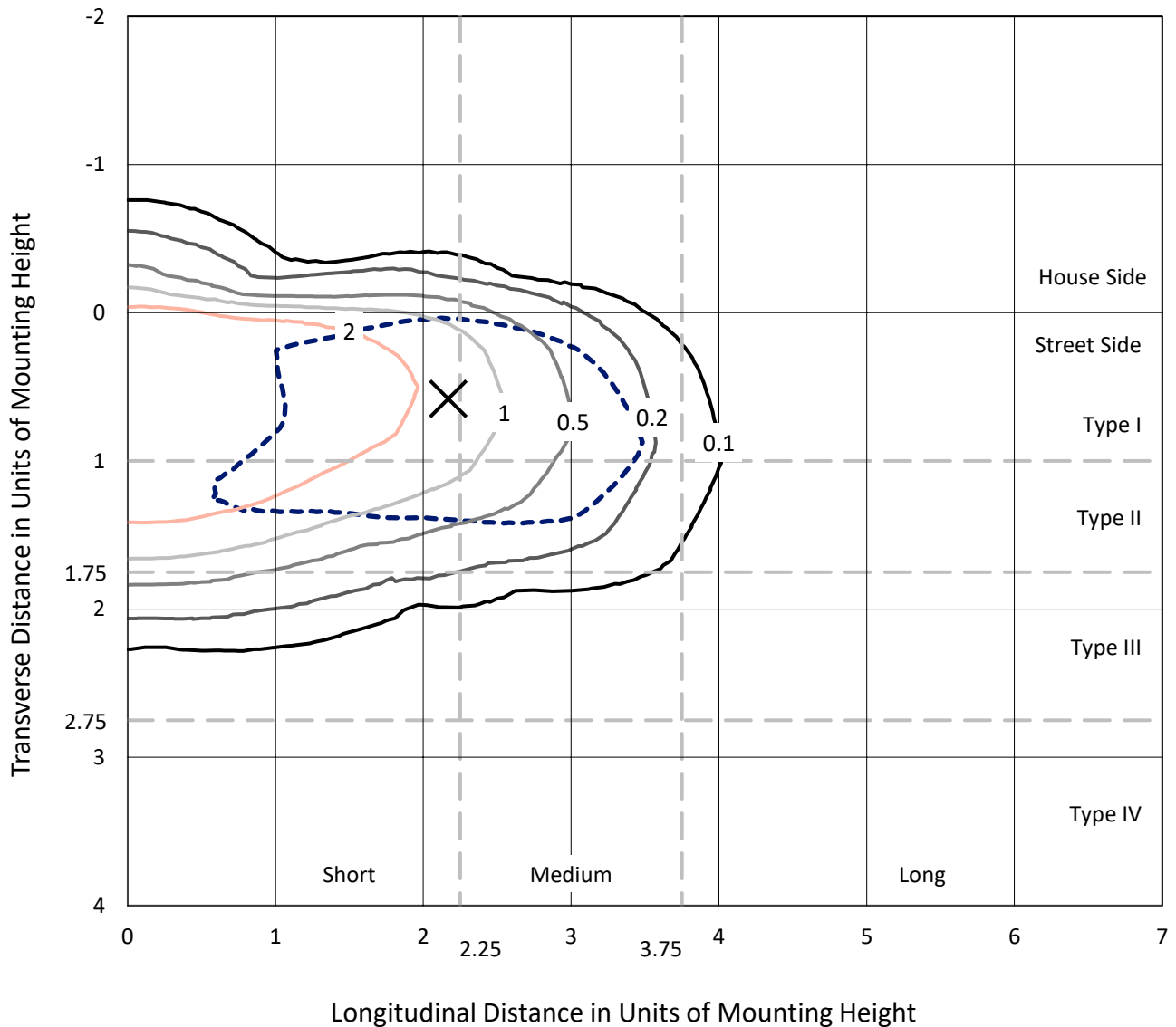
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

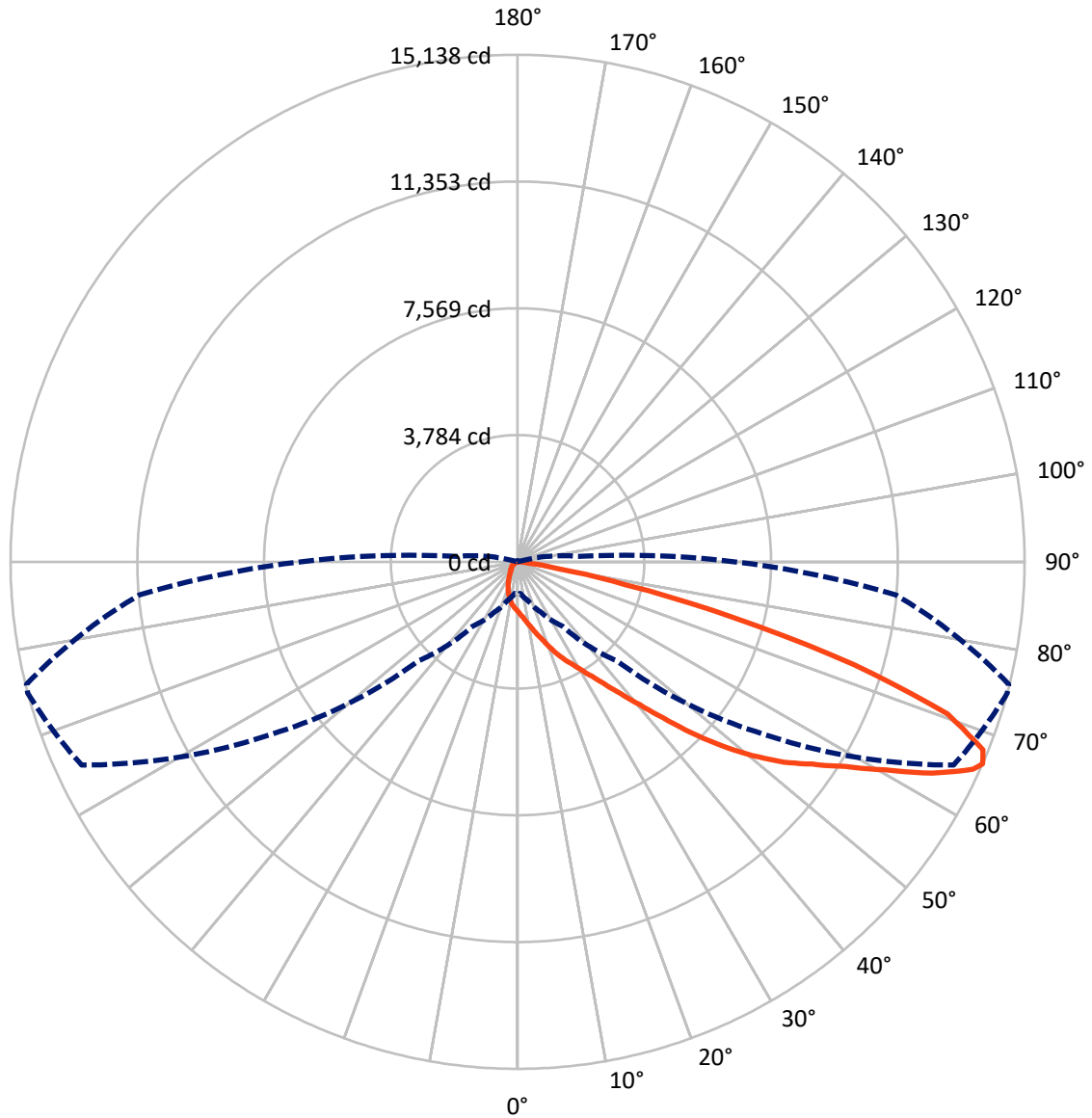
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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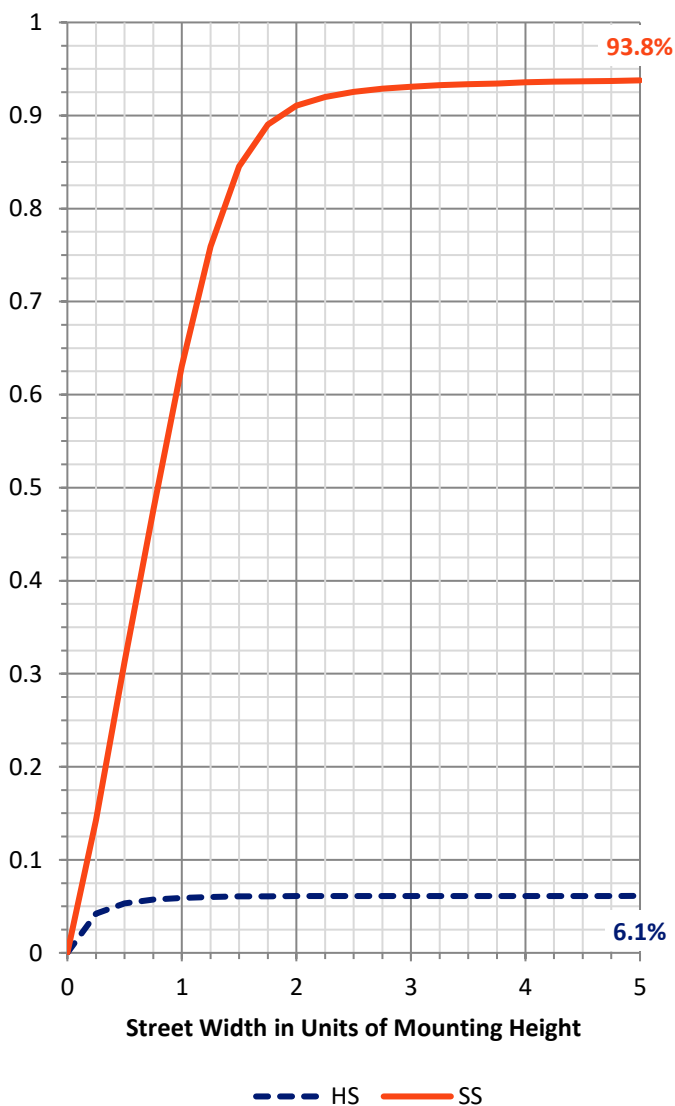
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	834.5	0.0	834.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	12683.2	0.0	12683.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	13517.7	0.0	13517.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.6	1.1
10°-20°	419.6	3.1
20°-30°	724.6	5.4
30°-40°	1307.1	9.7
40°-50°	2361.2	17.5
50°-60°	3681.2	27.2
60°-70°	3496.9	25.9
70°-80°	1310.6	9.7
80°-90°	73.9	0.5
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°	13517.7	100.0
0°-180°	13517.7	100.0

Coefficient of Utilization



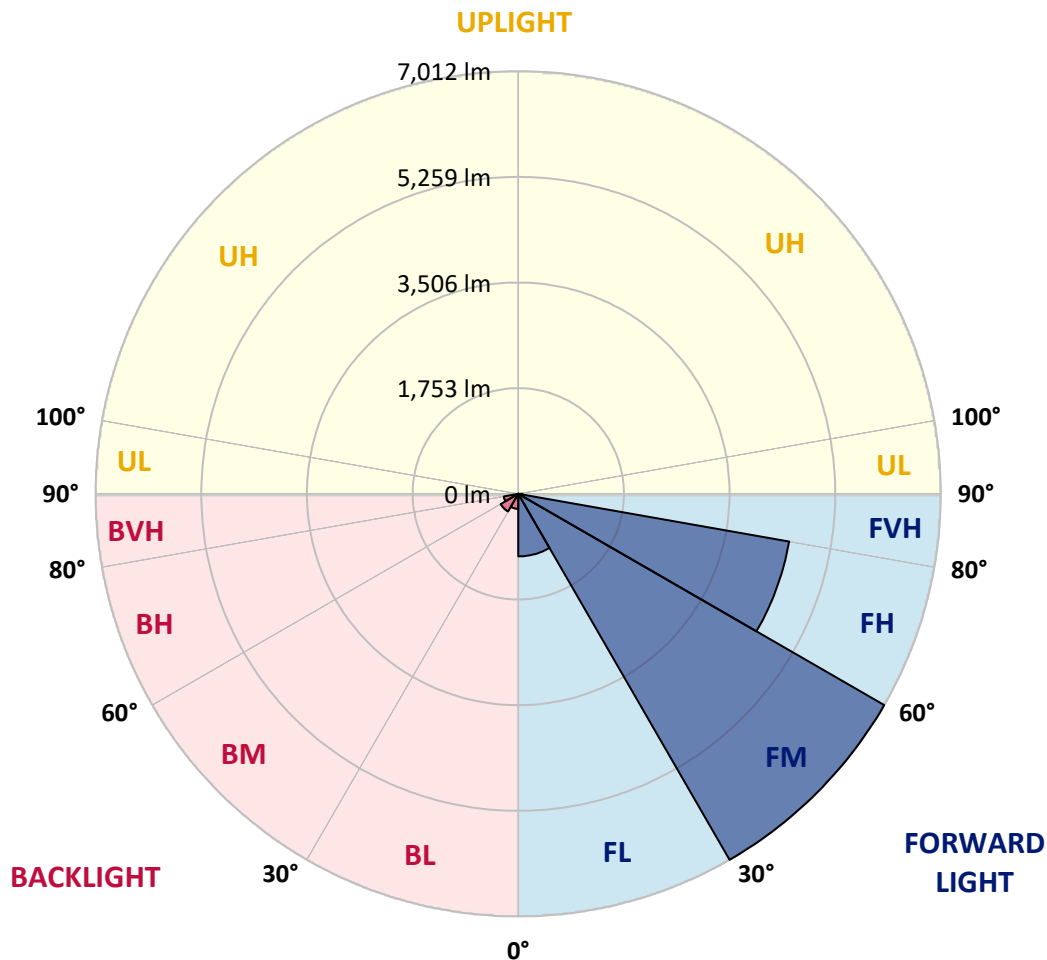
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1037.6	7.7			
FM (30°-60°)	7011.6	51.9			
FH (60°-80°)	4563.8	33.8			G2/5000
FVH (80°-90°)	70.1	0.5			G1/100
BL (0°-30°)	249.2	1.8	B1/500		
BM (30°-60°)	337.8	2.5	B1/1000		
BH (60°-80°)	243.7	1.8	B1/500		G1/500
BVH (80°-90°)	3.8	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1478.3	1478.3	1478.3	1478.3	1478.3	1478.3	1478.3	1478.3	1478.3	1478.3	1478.3
2.5°	1766.1	1744.1	1751.2	1741.2	1718.2	1684.2	1654.2	1611.3	1568.3	1561.2	1513.3
5°	1999.1	1993.0	1985.1	1956.1	1940.0	1888.1	1826.1	1752.2	1663.2	1647.2	1560.3
7.5°	2157.9	2155.0	2159.0	2144.0	2130.0	2083.0	2017.0	1916.1	1778.1	1769.2	1624.3
10°	2209.9	2217.9	2233.0	2256.9	2278.9	2263.9	2213.9	2088.0	1927.1	1901.1	1697.2
12.5°	2180.0	2189.0	2225.0	2288.9	2359.9	2400.8	2380.9	2288.9	2085.0	2064.0	1779.1
15°	2103.0	2114.0	2165.0	2263.9	2390.9	2506.8	2556.8	2490.8	2268.9	2234.9	1878.1
17.5°	1989.1	2005.0	2078.0	2208.9	2382.8	2582.8	2723.7	2701.7	2464.8	2432.9	1986.1
20°	1903.1	1915.1	1977.1	2127.0	2348.8	2624.8	2882.6	2944.6	2706.7	2651.7	2113.0
22.5°	1960.1	1964.1	1985.1	2075.0	2287.9	2635.7	3022.5	3197.5	2963.6	2914.6	2244.9
25°	2238.9	2199.0	2178.0	2157.9	2274.9	2625.7	3149.5	3461.3	3219.5	3167.5	2375.9
27.5°	2678.7	2660.7	2554.8	2412.8	2385.9	2638.7	3233.5	3711.3	3460.3	3404.4	2503.8
30°	3157.5	3126.5	3061.5	2853.6	2644.7	2730.7	3294.4	3954.2	3745.2	3671.3	2620.8
32.5°	3597.3	3617.3	3520.3	3306.5	3064.5	2926.6	3373.4	4219.0	4072.1	3980.1	2756.7
35°	4110.0	4150.1	4001.1	3796.2	3513.3	3280.5	3527.3	4517.8	4486.8	4370.9	2966.6
37.5°	4630.8	4654.8	4563.8	4276.0	4021.1	3730.2	3817.2	4886.7	4997.7	4898.7	3217.5
40°	5068.6	5101.6	5034.6	4778.7	4506.9	4251.0	4238.0	5288.5	5605.3	5503.4	3591.3
42.5°	5403.4	5428.4	5430.4	5249.5	5004.6	4888.7	4774.7	5801.2	6367.0	6249.0	4025.1
45°	5826.2	5862.2	5841.2	5718.2	5535.3	5514.4	5455.4	6420.9	7278.5	7129.6	4587.8
47.5°	6479.9	6503.9	6451.9	6307.0	6121.1	6154.1	6119.1	7115.6	8208.1	8080.2	5170.5
50°	6933.7	6973.7	7047.6	7105.6	6970.7	6848.7	6744.8	7764.3	9090.6	8975.7	5766.2
52.5°	6928.7	6994.7	7228.6	7520.4	7815.3	7778.3	7479.5	8481.0	9933.3	9791.3	6326.0
55°	6461.9	6589.9	6933.7	7451.4	8268.1	8674.9	8538.9	9310.6	10660.9	10564.9	6974.7
57.5°	5498.4	5576.4	6054.1	6777.8	8015.2	9096.7	9766.4	10435.0	11533.5	11488.5	7982.2
60°	3698.3	3733.2	4347.9	5242.5	6823.8	8675.9	10665.9	11795.3	12608.0	12586.0	9158.7
62.5°	2119.0	2134.0	2579.8	3334.4	4855.7	7352.5	10741.9	13473.6	13896.4	13908.4	10520.0
65°	1140.4	1148.4	1508.3	1957.0	2954.6	5240.5	9659.4	14393.1	14937.9	14960.9	11363.6
66°	984.5	946.6	1200.4	1668.2	2350.9	4171.0	8974.7	14360.1	15137.8	15112.8	11333.6
67.5°	748.6	782.6	958.5	1282.4	1742.2	2965.6	7409.5	13721.4	14985.8	14907.9	10872.8
70°	535.7	549.7	682.7	914.5	1186.4	1627.2	4734.7	11396.6	13620.5	13515.5	9472.5
72.5°	345.9	360.8	483.7	661.7	857.6	888.5	2650.8	8234.1	10501.0	10486.0	7133.6
75°	246.9	260.9	319.9	473.8	644.7	549.7	1276.4	5549.4	6675.8	6630.8	4412.9
77.5°	178.9	185.9	213.9	309.8	460.8	393.8	591.7	2963.6	3323.4	3480.4	1950.1
80°	103.0	108.9	148.9	188.9	311.9	268.9	282.9	1189.5	1226.4	1167.5	609.7
82.5°	51.0	57.9	88.9	129.0	194.9	181.0	129.9	357.8	377.8	367.9	153.9
85°	12.0	15.0	50.0	85.0	95.0	81.0	63.0	104.9	129.9	126.9	59.0
87.5°	1.0	2.0	18.0	15.0	16.0	27.0	22.0	27.0	42.0	39.0	21.0
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°	1478.3	1478.3	1478.3	1478.3	1478.3	1478.3	1478.3	1478.3	1478.3	1478.3	1478.3
2.5°	1491.3	1472.3	1417.3	1363.4	1318.3	1271.4	1228.4	1203.4	1193.4	1182.4	1187.4
5°	1512.3	1466.3	1355.4	1259.4	1165.4	1085.5	1021.5	980.6	960.5	957.5	952.5
7.5°	1540.2	1461.3	1289.4	1139.4	1016.5	927.5	854.6	795.6	777.6	761.6	748.6
10°	1574.2	1452.3	1207.4	1013.5	882.6	770.6	674.7	604.7	568.7	558.7	565.7
12.5°	1610.2	1435.3	1121.5	897.6	746.7	603.7	514.7	479.7	469.8	465.8	466.7
15°	1646.2	1414.3	1031.5	785.7	594.7	481.8	440.8	431.8	427.8	425.8	423.8
17.5°	1679.2	1380.4	930.6	676.7	481.8	411.8	396.8	388.8	380.9	377.8	372.8
20°	1718.2	1341.4	839.6	554.8	407.8	372.8	354.9	339.8	327.8	319.9	318.8
22.5°	1755.2	1291.4	744.6	459.8	371.8	334.8	305.8	289.9	275.9	265.9	268.9
25°	1775.1	1230.4	659.7	400.8	338.8	296.8	264.9	244.9	229.9	224.9	223.9
27.5°	1775.1	1155.5	576.8	366.8	308.8	262.9	229.9	210.9	200.9	193.9	194.9
30°	1761.1	1072.5	499.8	340.8	282.9	232.9	201.9	184.9	176.9	171.9	170.9
32.5°	1750.2	993.5	433.8	315.9	255.9	206.9	179.9	166.9	158.9	153.9	153.9
35°	1767.2	925.6	382.8	290.9	230.9	186.9	162.9	151.0	142.9	138.9	138.0
37.5°	1812.2	863.6	343.8	263.9	207.9	169.9	151.0	136.9	129.0	123.9	121.9
40°	1923.0	828.6	314.8	238.9	185.9	155.9	136.9	123.9	113.9	108.9	108.0
42.5°	2101.0	829.6	286.9	215.9	168.9	143.9	125.0	109.9	99.0	94.0	92.9
45°	2368.9	867.6	264.9	193.9	153.9	130.9	112.0	95.9	86.0	81.0	81.0
47.5°	2689.7	941.6	245.9	174.9	139.9	118.9	99.0	83.0	73.0	69.0	69.0
50°	3037.6	1037.5	226.9	155.0	127.9	105.9	85.0	72.0	64.0	61.0	61.0
52.5°	3392.3	1153.4	207.9	138.9	114.9	91.9	73.0	64.0	57.0	55.0	53.9
55°	3858.2	1301.3	187.9	121.9	100.9	78.9	65.0	56.0	48.0	44.9	44.0
57.5°	4574.8	1524.3	165.9	107.0	83.0	66.0	56.0	47.0	38.0	33.0	31.9
60°	5439.4	1796.1	142.9	94.0	66.9	53.9	44.9	36.0	28.0	22.0	21.0
62.5°	6249.0	1969.1	121.0	78.9	53.0	41.0	31.9	27.0	20.0	14.0	13.0
65°	6606.9	1911.1	100.0	64.0	42.0	29.0	21.0	19.0	12.0	6.0	5.0
66°	6487.9	1825.1	91.9	57.9	38.0	25.0	18.0	16.0	9.0	3.0	3.0
67.5°	6137.1	1622.2	79.9	50.0	33.0	20.0	14.0	12.0	5.0	1.0	0.0
70°	5258.5	1312.4	63.0	37.0	24.0	14.0	8.0	6.0	3.0	0.0	0.0
72.5°	4039.1	977.5	50.0	28.0	17.0	8.0	4.0	2.0	3.0	0.0	0.0
75°	2474.8	558.7	39.0	21.0	11.0	5.0	3.0	0.0	3.0	1.0	0.0
77.5°	1098.5	250.9	26.0	14.0	8.0	4.0	2.0	0.0	2.0	1.0	0.0
80°	277.9	82.0	15.0	10.0	6.0	3.0	1.0	0.0	2.0	2.0	1.0
82.5°	76.0	30.0	11.0	8.0	5.0	3.0	1.0	0.0	2.0	2.0	2.0
85°	30.0	14.0	10.0	8.0	6.0	3.0	1.0	0.0	2.0	2.0	2.0
87.5°	14.0	10.0	10.0	9.0	7.0	3.0	1.0	0.0	2.0	1.0	2.0
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)