

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: P526823

Luminaire Tested: **GALN-SA1D-740-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-740-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5839 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

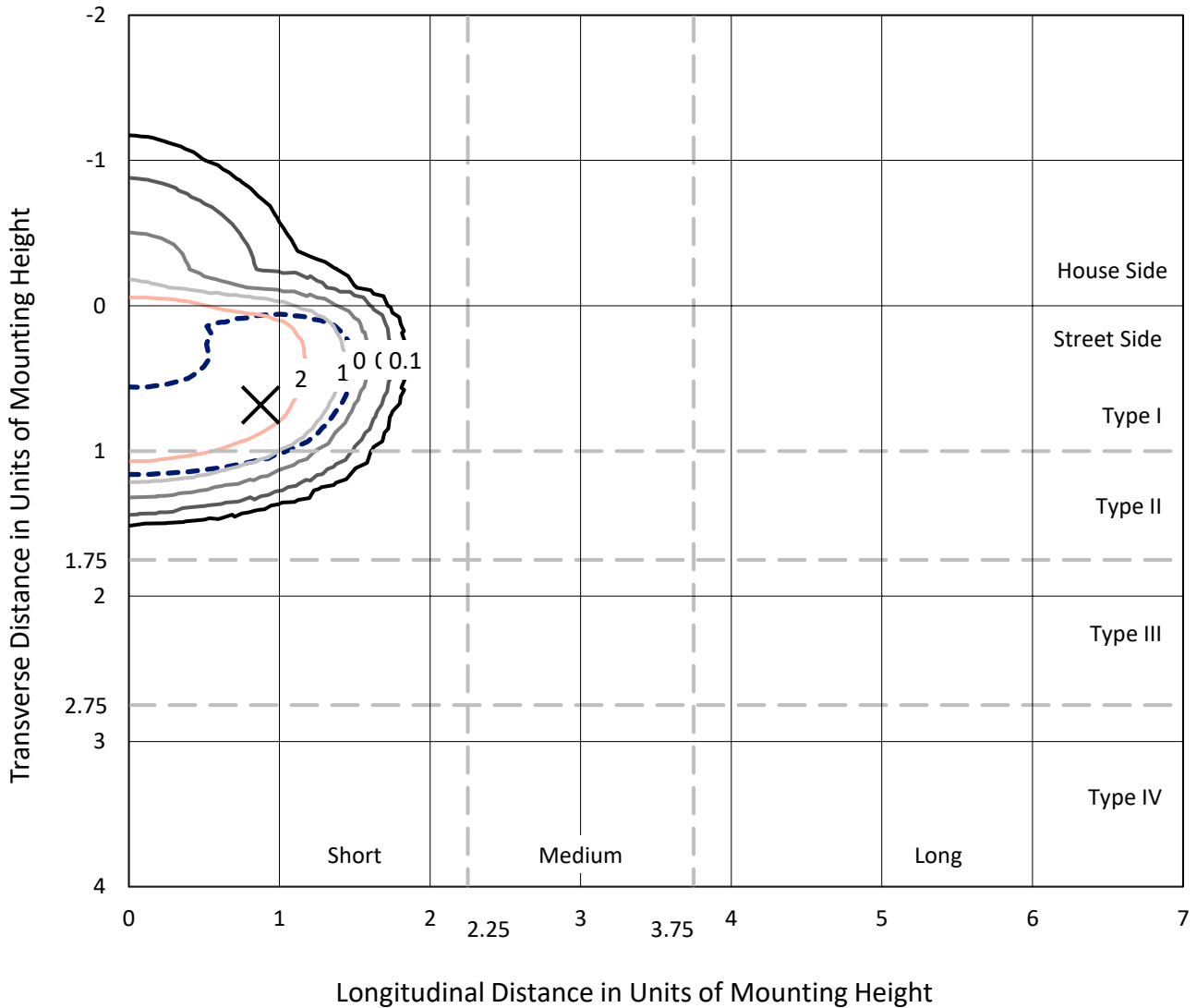
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

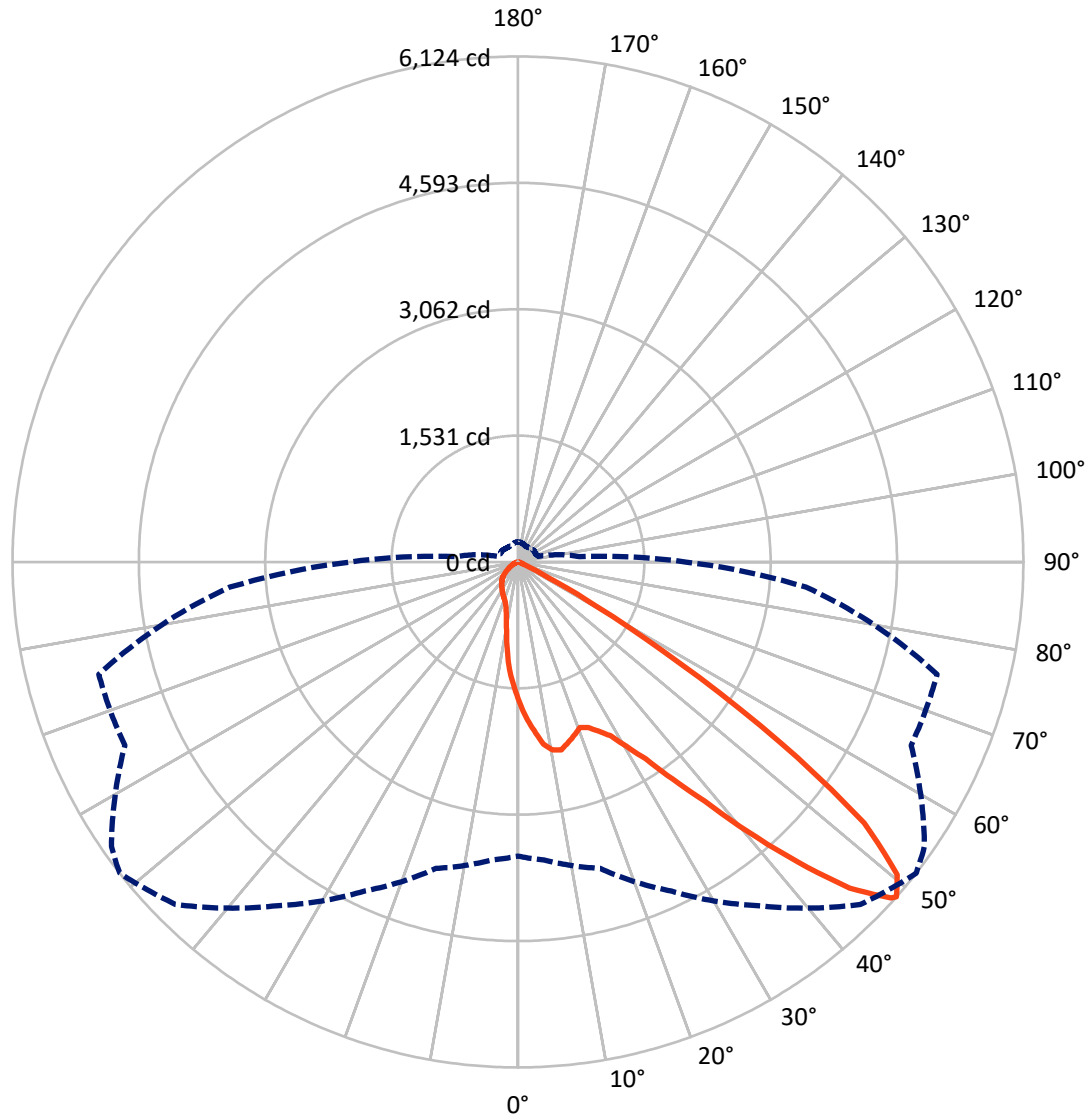
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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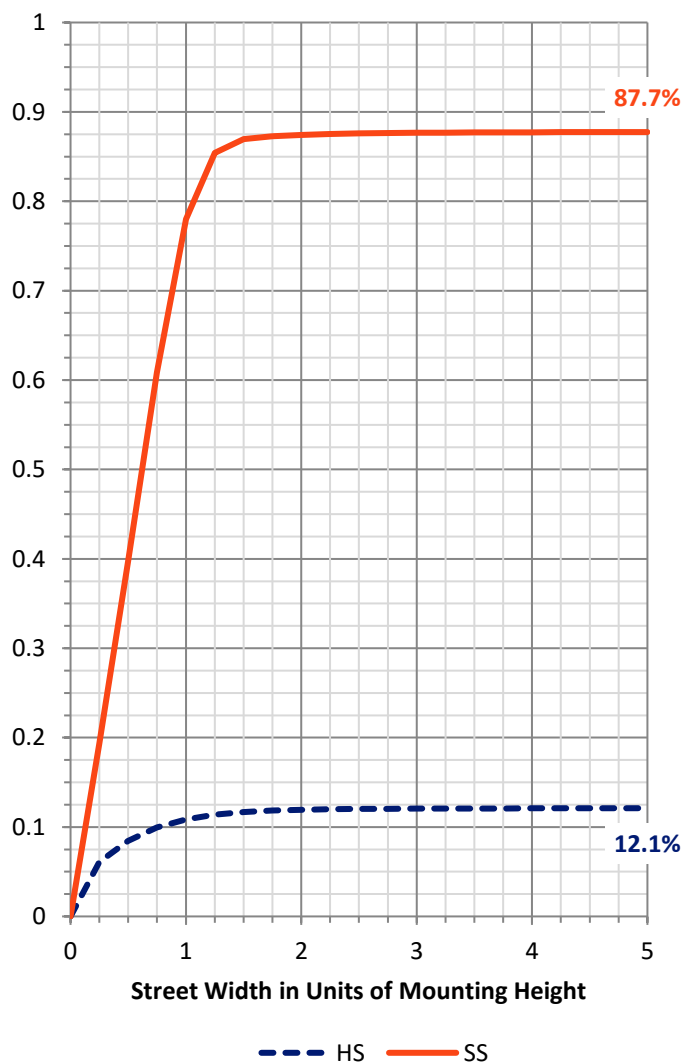
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	711.0	0.0	711.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	5128.1	0.0	5128.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	5839.0	0.0	5839.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.3	2.6
10°-20°	403.3	6.9
20°-30°	688.7	11.8
30°-40°	1268.2	21.7
40°-50°	1969.5	33.7
50°-60°	1185.3	20.3
60°-70°	137.1	2.3
70°-80°	26.5	0.5
80°-90°	6.2	0.1
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°	5839.0	100.0
0°-180°	5839.0	100.0

Coefficient of Utilization



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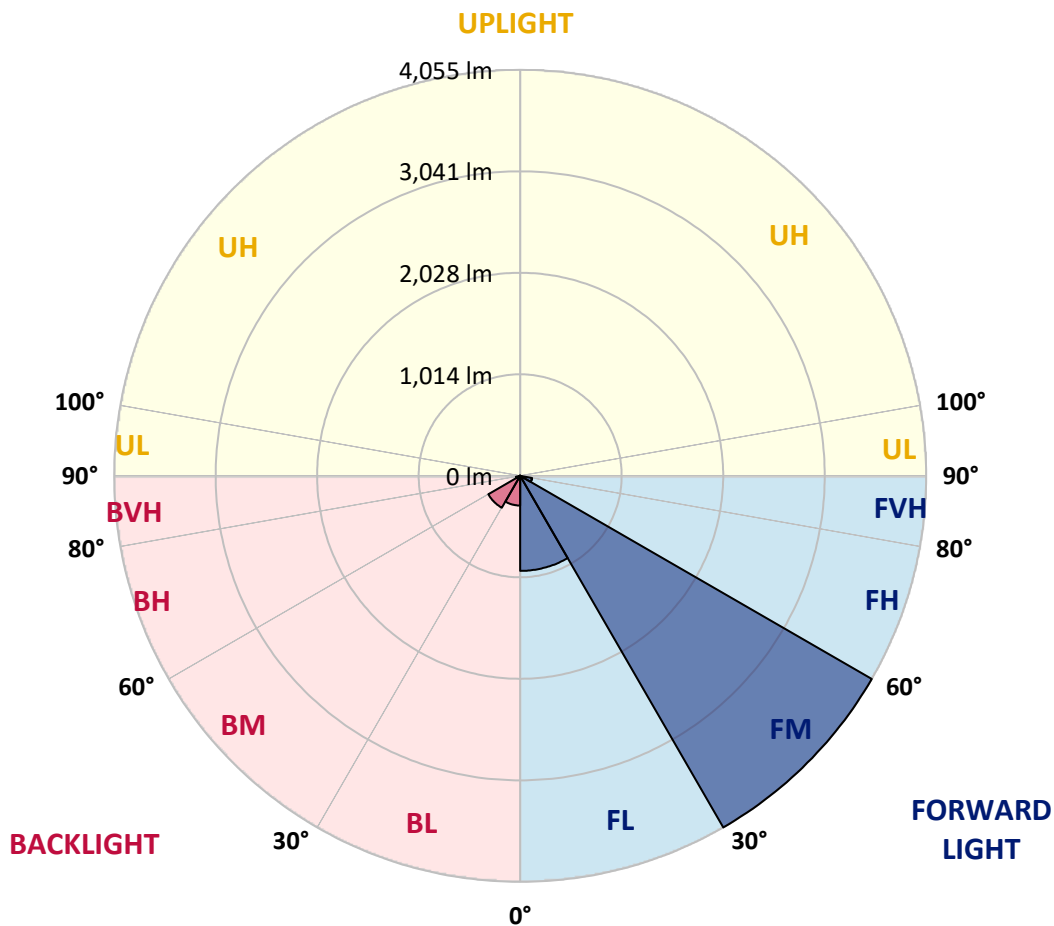
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	949.3	16.3			
FM (30°-60°)	4055.1	69.4			
FH (60°-80°)	120.7	2.1			G0/660
FVH (80°-90°)	2.9	0.1			G0/10
BL (0°-30°)	297.0	5.1	B1/500		
BM (30°-60°)	367.8	6.3	B1/1000		
BH (60°-80°)	42.9	0.7	B0/110		G0/110
BVH (80°-90°)	3.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1686.2	1686.2	1686.2	1686.2	1686.2	1686.2	1686.2	1686.2	1686.2	1686.2	1686.2
2.5°	2043.7	1996.9	2001.1	1970.5	1952.6	1923.7	1884.5	1876.9	1834.3	1776.4	1717.7
5°	2227.6	2216.5	2231.0	2186.7	2188.4	2140.7	2048.8	2050.5	1952.6	1858.1	1767.1
7.5°	2239.5	2213.9	2228.4	2267.6	2290.6	2282.0	2230.1	2185.0	2092.2	1953.5	1820.7
10°	2005.4	2053.9	2069.2	2133.9	2225.9	2322.9	2316.9	2319.5	2242.0	2060.7	1866.7
12.5°	1865.0	1832.6	1884.5	1923.7	2062.4	2250.5	2336.5	2355.2	2361.2	2164.6	1912.6
15°	1801.1	1801.1	1809.6	1820.7	1921.1	2094.8	2270.1	2324.6	2453.1	2300.8	1985.0
17.5°	1841.1	1839.4	1851.3	1828.4	1865.8	1999.4	2208.8	2271.0	2556.1	2434.4	2042.0
20°	1962.8	1968.8	1961.1	1894.7	1897.3	1997.7	2140.7	2238.6	2625.9	2550.2	2117.8
22.5°	2132.2	2135.6	2092.2	2019.9	1998.6	2048.0	2179.9	2254.8	2682.1	2688.9	2140.7
25°	2328.0	2314.4	2305.9	2203.7	2139.0	2181.6	2268.4	2311.8	2717.0	2808.1	2206.3
27.5°	2599.5	2572.3	2520.4	2429.3	2381.6	2321.2	2383.3	2454.8	2816.6	2974.9	2277.8
30°	3000.4	2976.6	2875.3	2757.9	2632.7	2573.1	2592.7	2631.9	2996.2	3168.1	2372.3
32.5°	3603.9	3553.7	3407.3	3183.4	3013.2	2848.9	2843.8	2885.5	3157.1	3435.4	2484.6
35°	4268.7	4253.4	4038.0	3807.4	3478.0	3224.3	3228.6	3250.7	3465.2	3786.1	2631.9
37.5°	4710.5	4794.7	4657.7	4410.0	4133.4	3770.8	3678.8	3686.5	3888.2	4201.5	2897.4
40°	5051.8	4980.3	4996.5	4938.6	4749.6	4502.8	4299.4	4259.4	4377.7	4661.1	3161.3
42.5°	4902.9	4906.3	5005.8	5142.9	5189.7	5171.8	4964.1	4888.4	4796.5	5037.3	3412.4
45°	4482.4	4570.0	4699.4	5062.0	5380.4	5679.1	5638.3	5512.3	5085.9	5335.3	3557.1
47.5°	3811.6	3808.2	4020.2	4491.7	5199.1	5898.7	6084.3	5995.8	5291.0	5302.1	3527.3
48°	3563.9	3625.2	3844.0	4398.9	5084.2	5866.4	6124.3	6012.8	5256.1	5257.8	3501.8
50°	2634.4	2623.4	2895.7	3576.7	4541.1	5512.3	5955.8	6042.6	5255.2	5033.9	3323.0
52.5°	1391.7	1439.4	1637.7	2248.8	3210.7	4511.3	5253.5	5388.9	5069.7	4667.9	3066.0
55°	591.6	534.5	686.9	1015.5	1806.2	3014.1	3854.2	4155.5	4286.6	4130.8	2682.1
57.5°	211.1	230.7	265.6	382.2	759.3	1649.6	2298.2	2532.3	2969.8	3031.1	1827.5
60°	135.3	137.9	149.0	175.3	285.1	635.8	1090.4	1276.8	1475.1	1522.8	852.9
62.5°	104.7	105.5	110.7	114.9	135.3	246.8	409.4	485.2	503.9	433.3	223.9
65°	87.7	88.5	90.2	90.2	96.2	115.8	143.0	157.5	153.2	151.5	126.8
67.5°	67.2	68.9	72.4	72.4	75.8	70.6	79.2	84.3	95.3	115.8	108.1
70°	52.8	53.6	56.2	57.9	57.9	51.1	57.0	62.1	69.8	86.0	85.1
72.5°	40.9	42.6	44.3	44.3	41.7	34.9	40.9	45.1	50.2	59.6	57.9
75°	31.5	31.5	32.3	26.4	20.4	17.9	24.7	29.8	37.5	39.2	32.3
77.5°	8.5	9.4	8.5	7.7	8.5	12.8	16.2	18.7	23.8	23.8	21.3
80°	0.0	0.9	2.6	5.1	8.5	11.9	14.5	16.2	18.7	20.4	19.6
82.5°	0.0	0.9	2.6	5.1	7.7	9.4	12.8	13.6	15.3	17.9	17.9
85°	0.0	0.9	1.7	3.4	5.1	6.0	6.0	5.1	5.1	4.3	3.4
87.5°	0.0	0.0	0.9	1.7	1.7	2.6	2.6	2.6	2.6	2.6	2.6
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°	1686.2	1686.2	1686.2	1686.2	1686.2	1686.2	1686.2	1686.2	1686.2	1686.2	1686.2
2.5°	1694.7	1668.3	1628.3	1565.3	1504.9	1465.7	1428.3	1386.6	1363.6	1361.9	1349.1
5°	1715.1	1655.6	1560.2	1452.1	1336.4	1236.8	1136.3	1070.8	1012.1	979.7	973.8
7.5°	1726.2	1648.8	1494.7	1313.4	1115.9	953.3	841.0	758.4	726.1	702.2	701.4
10°	1749.2	1636.8	1396.8	1129.5	885.2	721.0	643.5	606.0	588.2	581.4	571.1
12.5°	1766.2	1614.7	1296.4	940.6	699.7	597.5	563.5	555.0	555.8	559.2	555.0
15°	1790.1	1595.1	1161.0	772.0	587.3	538.0	538.0	539.7	551.6	553.3	552.4
17.5°	1788.3	1556.8	1021.4	635.8	519.2	512.4	515.0	531.1	538.8	541.4	535.4
20°	1808.8	1521.1	877.6	543.1	480.9	491.1	508.2	512.4	521.8	523.5	516.7
22.5°	1802.8	1431.7	743.9	469.9	452.0	471.6	488.6	493.7	491.1	486.0	485.2
25°	1791.8	1355.1	621.4	421.3	430.7	452.0	468.2	458.8	453.7	454.5	455.4
27.5°	1772.2	1258.1	520.1	387.3	401.8	433.3	432.4	429.0	434.1	429.9	434.1
30°	1768.8	1161.0	436.7	356.6	380.5	403.5	405.2	411.1	417.1	409.4	417.1
32.5°	1773.9	1054.6	377.1	337.9	367.7	368.6	387.3	393.2	389.0	372.0	373.7
35°	1813.0	972.9	333.7	327.7	347.3	348.1	366.0	358.4	339.6	329.4	335.4
37.5°	1895.6	904.8	313.2	318.3	320.0	331.1	332.0	316.6	318.3	317.5	320.9
40°	2001.1	852.9	298.8	309.8	308.1	315.8	285.1	293.7	301.3	303.9	305.6
42.5°	2073.5	815.4	289.4	296.2	292.8	279.2	262.2	270.7	276.6	286.0	287.7
45°	2105.8	785.6	278.3	272.4	272.4	247.7	240.9	242.6	256.2	266.4	264.7
47.5°	2053.1	756.7	258.8	240.9	246.8	226.4	218.8	218.8	233.2	246.0	243.4
48°	2032.6	744.8	259.6	234.1	238.3	223.0	215.4	213.6	229.8	241.7	241.7
50°	1931.3	700.5	237.5	215.4	206.8	205.1	200.0	201.7	211.9	223.0	223.0
52.5°	1733.9	605.2	200.9	184.7	169.4	179.6	182.2	178.7	183.9	194.1	193.2
55°	1447.0	464.7	160.9	153.2	141.3	152.4	157.5	153.2	148.1	155.8	155.8
57.5°	926.9	250.2	128.5	130.2	118.3	129.4	133.6	123.4	114.1	120.0	119.2
60°	417.9	149.8	105.5	103.0	95.3	108.1	114.9	103.0	90.2	94.5	98.7
62.5°	156.6	106.4	80.0	78.3	76.6	88.5	91.9	82.6	69.8	72.4	73.2
65°	114.9	93.6	63.8	57.9	61.3	69.8	68.1	58.7	50.2	50.2	51.9
67.5°	97.9	81.7	51.9	45.1	45.1	46.0	42.6	37.5	34.9	36.6	38.3
70°	76.6	64.7	40.9	34.9	31.5	28.1	24.7	23.8	21.3	23.8	23.0
72.5°	49.4	43.4	31.5	26.4	23.8	19.6	16.2	15.3	12.8	11.9	11.9
75°	26.4	26.4	24.7	21.3	18.7	15.3	12.8	10.2	6.8	5.1	5.1
77.5°	18.7	20.4	22.1	20.4	17.0	12.8	10.2	6.8	3.4	1.7	1.7
80°	17.9	20.4	22.1	19.6	17.0	12.8	9.4	5.1	2.6	0.9	0.9
82.5°	16.2	18.7	20.4	17.9	15.3	11.1	8.5	5.1	2.6	0.9	0.9
85°	3.4	4.3	5.1	5.1	6.0	7.7	6.0	4.3	1.7	0.9	0.9
87.5°	2.6	2.6	2.6	2.6	2.6	2.6	1.7	1.7	0.9	0.9	0.9
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)