

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: P302823

Luminaire Tested: **GLNA-AF-01-LED-E1-T4W-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302823  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191569)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-01-LED-E1-T4W-7030-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV Wide OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

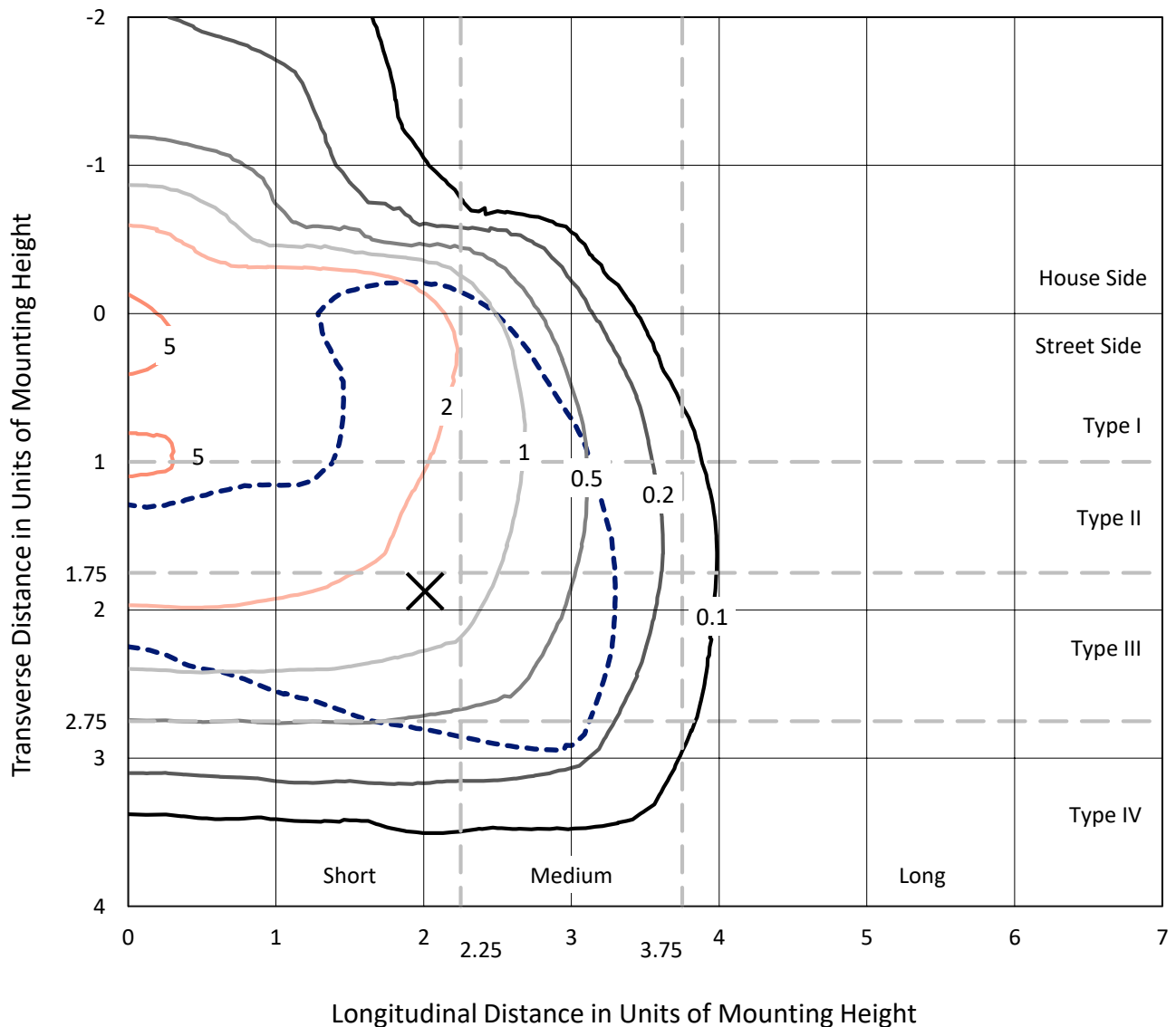
Lumens per Lamp: N/A  
Luminaire Lumens: 4819.8 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (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: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

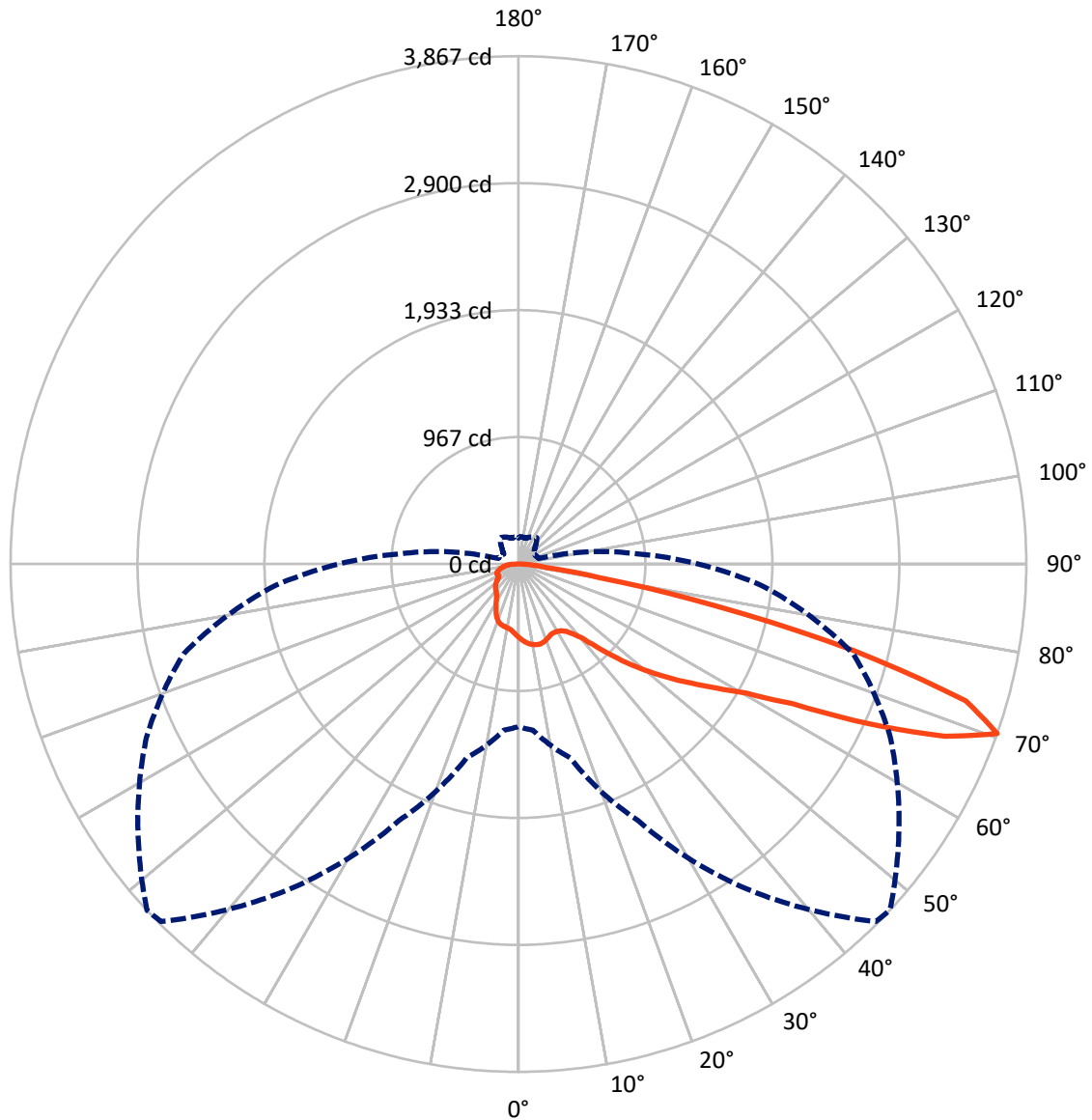
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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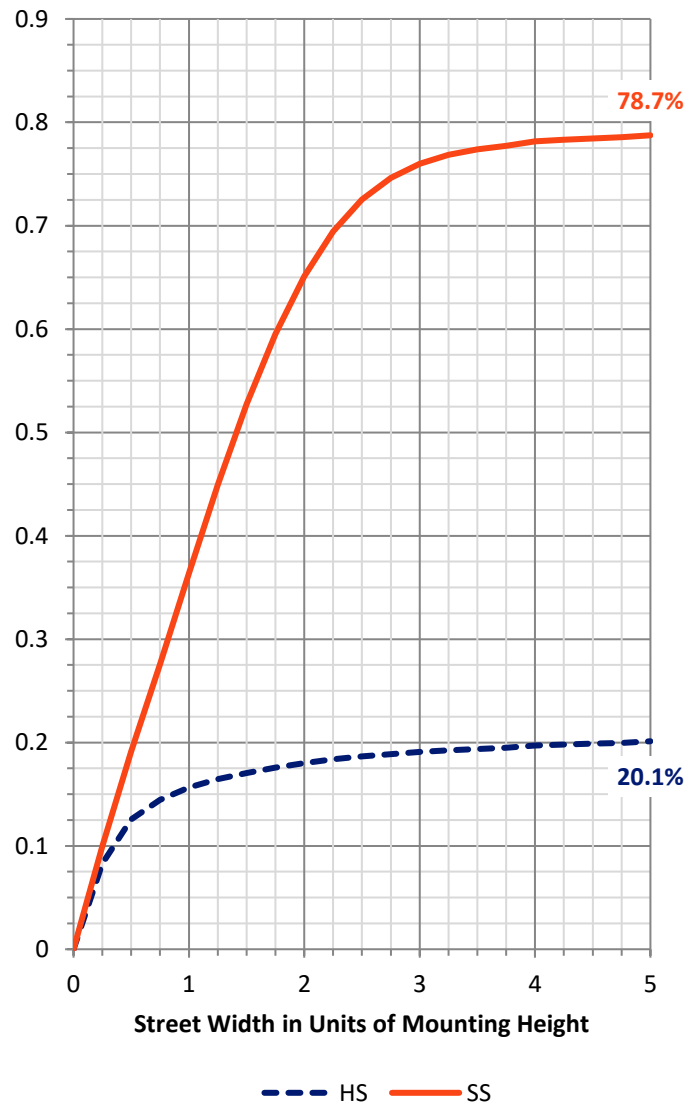
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1005.5	0.0	1005.5
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	3814.3	0.0	3814.3
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	4819.8	0.0	4819.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.6	1.1
10°-20°	157.2	3.3
20°-30°	232.1	4.8
30°-40°	337.4	7.0
40°-50°	607.2	12.6
50°-60°	1052.0	21.8
60°-70°	1501.5	31.2
70°-80°	770.8	16.0
80°-90°	107.9	2.2
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°	4819.8	100.0
0°-180°	4819.8	100.0



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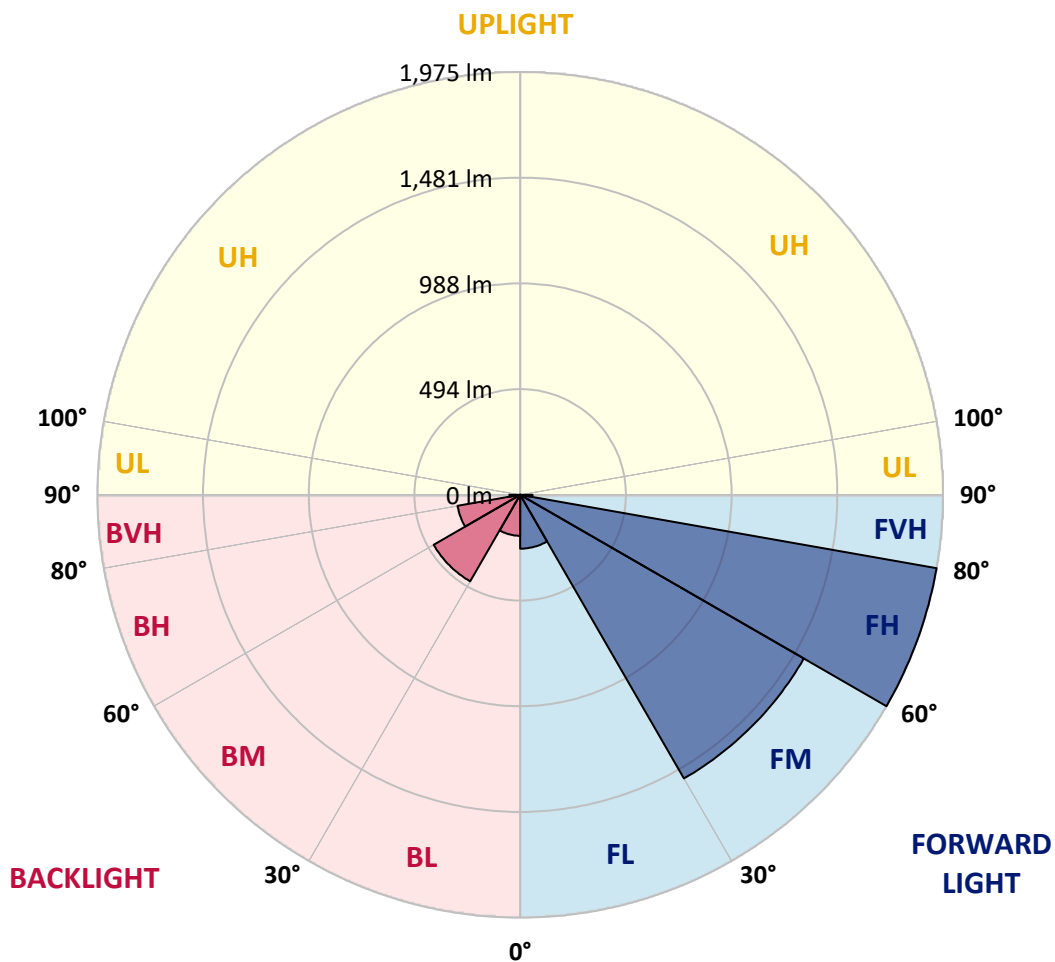
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	251.5	5.2			
FM	(30°-60°)	1529.9	31.7			
FH	(60°-80°)	1975.3	41.0			G2/5000
FVH	(80°-90°)	57.6	1.2			G1/100
BL	(0°-30°)	191.5	4.0	B1/500		
BM	(30°-60°)	466.7	9.7	B1/1000		
BH	(60°-80°)	297.0	6.2	B1/500		G1/500
BVH	(80°-90°)	50.3	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2
2.5°	592.1	590.9	590.5	589.5	588.4	582.4	581.3	577.1	571.2	565.1	558.8
5°	631.0	630.8	628.2	623.5	616.0	603.1	600.0	589.8	575.9	562.5	549.2
7.5°	665.2	663.1	658.2	648.8	635.7	618.1	613.9	599.6	580.6	562.3	544.2
10°	690.3	689.1	678.4	665.5	648.3	628.9	624.0	608.0	587.1	563.9	541.4
12.5°	704.6	702.3	689.8	674.4	654.0	635.0	630.0	613.9	590.5	563.9	537.4
15°	703.7	702.1	689.6	672.7	652.1	635.5	631.0	614.8	589.8	561.6	532.3
17.5°	684.9	685.6	675.1	658.4	641.6	628.9	624.9	609.9	585.0	556.9	526.2
20°	652.1	655.4	648.3	633.6	624.2	615.5	613.0	600.3	577.8	550.1	519.6
22.5°	619.3	622.3	619.5	607.1	605.6	600.5	599.1	590.0	571.5	545.9	515.6
25°	595.1	597.9	597.5	586.6	590.9	590.7	589.5	585.0	570.1	545.9	516.3
27.5°	588.6	589.5	588.6	578.7	584.5	589.3	588.4	587.6	574.3	552.7	525.3
30°	611.1	609.7	602.4	582.4	587.9	594.4	593.5	594.0	586.9	570.5	545.2
32.5°	700.9	694.5	671.5	615.5	601.2	604.7	605.2	613.0	614.1	597.9	576.1
35°	835.2	828.2	798.4	704.2	642.7	630.6	630.6	642.3	649.3	637.3	624.2
37.5°	977.6	969.8	953.9	827.1	729.9	675.3	674.2	682.4	692.4	695.3	698.6
40°	1139.3	1131.2	1135.6	964.9	851.7	752.9	736.2	730.4	757.6	775.7	802.0
42.5°	1316.4	1312.6	1314.3	1118.5	990.2	869.0	845.4	815.1	847.9	880.0	935.1
45°	1480.3	1483.6	1481.9	1282.9	1144.6	1010.6	985.5	926.9	959.1	1014.1	1104.0
47.5°	1623.8	1610.2	1631.3	1462.5	1317.4	1169.2	1138.2	1059.7	1092.2	1160.2	1312.1
50°	1798.0	1796.2	1765.2	1702.2	1526.2	1328.3	1287.8	1196.8	1247.4	1342.0	1574.6
52.5°	1981.2	1947.2	1918.8	1888.5	1747.9	1491.6	1441.8	1333.5	1429.9	1548.7	1894.4
55°	2018.6	2003.5	2038.6	2089.5	1961.5	1661.1	1603.2	1504.9	1635.3	1785.2	2263.3
57.5°	2098.9	2098.6	2171.4	2262.1	2181.4	1840.9	1782.5	1712.0	1866.2	2056.0	2654.8
60°	2153.1	2168.3	2303.4	2479.4	2397.4	2048.7	1995.0	1950.9	2128.9	2358.7	3019.7
62.5°	2181.4	2202.0	2386.4	2567.6	2702.6	2394.6	2340.9	2277.4	2476.4	2690.7	3233.1
65°	2063.5	2104.0	2373.5	2643.8	2970.0	2955.2	2931.1	2819.5	2910.9	2953.1	3156.0
67.5°	1737.0	1778.6	2092.3	2572.7	3160.9	3496.0	3501.1	3310.5	3178.2	2975.6	2653.4
70°	1237.6	1270.2	1529.8	2157.0	3015.5	3849.3	3866.9	3536.7	3125.0	2638.9	1853.9
72.5°	587.6	607.5	853.3	1403.9	2392.9	3526.9	3560.9	3247.9	2657.2	1953.7	1011.3
75°	216.0	222.0	288.4	597.2	1387.9	2600.9	2641.0	2328.2	1761.4	972.7	385.3
77.5°	129.4	133.4	161.8	252.1	545.9	1486.7	1545.9	1266.2	769.8	362.1	189.5
80°	90.5	93.3	116.0	156.8	257.9	566.6	619.3	516.8	306.7	229.1	137.8
82.5°	61.2	62.6	81.6	106.0	171.4	202.3	218.3	229.8	206.8	170.5	87.5
85°	40.1	41.5	55.4	69.9	109.0	104.6	106.9	135.3	151.0	115.8	48.5
87.5°	23.0	23.9	33.3	37.3	53.5	44.3	44.8	71.3	96.6	78.1	29.5
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°	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2
2.5°	557.1	554.1	547.3	543.0	539.1	538.1	536.5	536.3	536.0	536.0	535.3
5°	544.7	539.5	529.0	523.1	518.2	517.7	517.5	518.7	519.1	519.6	518.9
7.5°	536.7	529.7	516.6	508.1	502.3	500.8	503.2	508.6	512.1	513.5	512.8
10°	531.8	523.1	507.9	498.7	493.8	493.1	496.2	502.5	509.8	512.6	512.4
12.5°	526.2	516.3	500.1	490.5	487.7	489.1	493.1	499.0	506.5	511.0	511.2
15°	520.5	509.1	492.4	484.0	482.8	484.7	488.4	492.9	498.7	503.2	503.7
17.5°	513.8	501.8	485.2	476.5	475.5	476.5	476.7	479.0	482.8	487.0	488.2
20°	506.5	494.3	476.9	468.3	464.1	460.3	456.0	456.5	457.7	462.0	462.9
22.5°	501.3	489.1	470.6	458.6	447.4	436.1	427.7	426.5	427.0	430.5	431.7
25°	501.8	488.9	469.0	448.3	423.7	405.7	394.4	392.5	392.3	394.8	396.5
27.5°	511.0	498.0	475.0	437.7	398.0	371.2	359.2	357.8	356.0	356.7	358.5
30°	531.4	519.4	489.8	427.0	370.0	337.4	325.0	323.6	321.0	319.8	321.2
32.5°	564.6	554.8	511.4	416.6	342.1	308.5	295.9	292.9	291.3	289.9	291.0
35°	620.0	615.8	540.2	405.4	317.5	286.3	274.8	270.2	267.8	270.4	272.3
37.5°	706.7	709.1	578.0	387.8	298.5	271.6	261.9	256.5	253.0	255.1	257.2
40°	829.6	831.3	619.7	363.0	282.1	262.8	252.6	247.6	242.7	238.9	238.7
42.5°	990.9	974.3	660.8	336.0	263.1	257.5	246.0	239.9	232.4	222.0	219.9
45°	1182.3	1123.9	691.9	305.0	241.7	250.9	238.7	230.3	218.5	207.3	206.1
47.5°	1402.7	1284.5	707.2	273.0	221.8	241.3	229.8	216.4	201.6	196.0	195.3
50°	1671.9	1475.1	714.4	241.7	204.5	228.6	216.9	201.2	188.8	187.6	186.9
52.5°	1978.4	1704.5	716.9	216.2	190.2	212.2	206.4	191.1	181.2	182.2	182.2
55°	2299.2	1941.3	684.9	197.7	177.0	195.3	199.3	187.1	178.9	182.7	184.1
57.5°	2593.6	2151.2	584.5	183.4	164.6	182.5	196.7	190.9	185.3	200.5	201.4
60°	2819.7	2275.2	436.6	170.5	155.4	177.9	203.6	205.2	206.6	242.9	247.9
62.5°	2867.0	2234.0	300.1	160.4	151.2	181.8	216.0	216.2	214.6	239.9	242.9
65°	2649.7	1972.9	218.3	154.7	147.7	188.5	226.5	221.6	210.8	230.0	224.4
67.5°	2104.2	1486.4	181.8	150.5	142.6	188.1	237.8	226.5	208.7	225.4	216.2
70°	1365.9	898.8	161.8	147.0	136.4	179.1	244.3	226.1	202.6	209.6	198.8
72.5°	666.4	401.9	148.4	141.9	130.1	166.7	244.1	221.8	196.3	195.8	189.9
75°	260.7	184.1	136.2	134.1	119.4	152.6	237.5	215.7	188.8	181.2	179.1
77.5°	152.6	131.3	120.8	122.7	106.5	138.5	227.9	205.2	178.4	169.5	167.2
80°	111.1	98.3	103.0	106.0	91.0	124.5	215.0	192.3	167.0	171.4	168.1
82.5°	71.3	63.3	83.5	86.5	75.8	110.2	200.9	178.6	150.8	136.9	133.6
85°	36.4	40.1	62.1	65.9	58.4	90.5	183.9	160.7	132.5	113.9	115.8
87.5°	20.4	27.4	39.6	44.3	41.3	69.6	149.1	132.5	108.1	87.9	77.4
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)