

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: P269038

Luminaire Tested: **GLEON-AF-01-LED-E1-T4W-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269038  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-01-LED-E1-T4W-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3542.1 lumens  
Efficiency: N/A  
Efficacy: 104.2 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 - G1

Input Watts (W): 34  
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

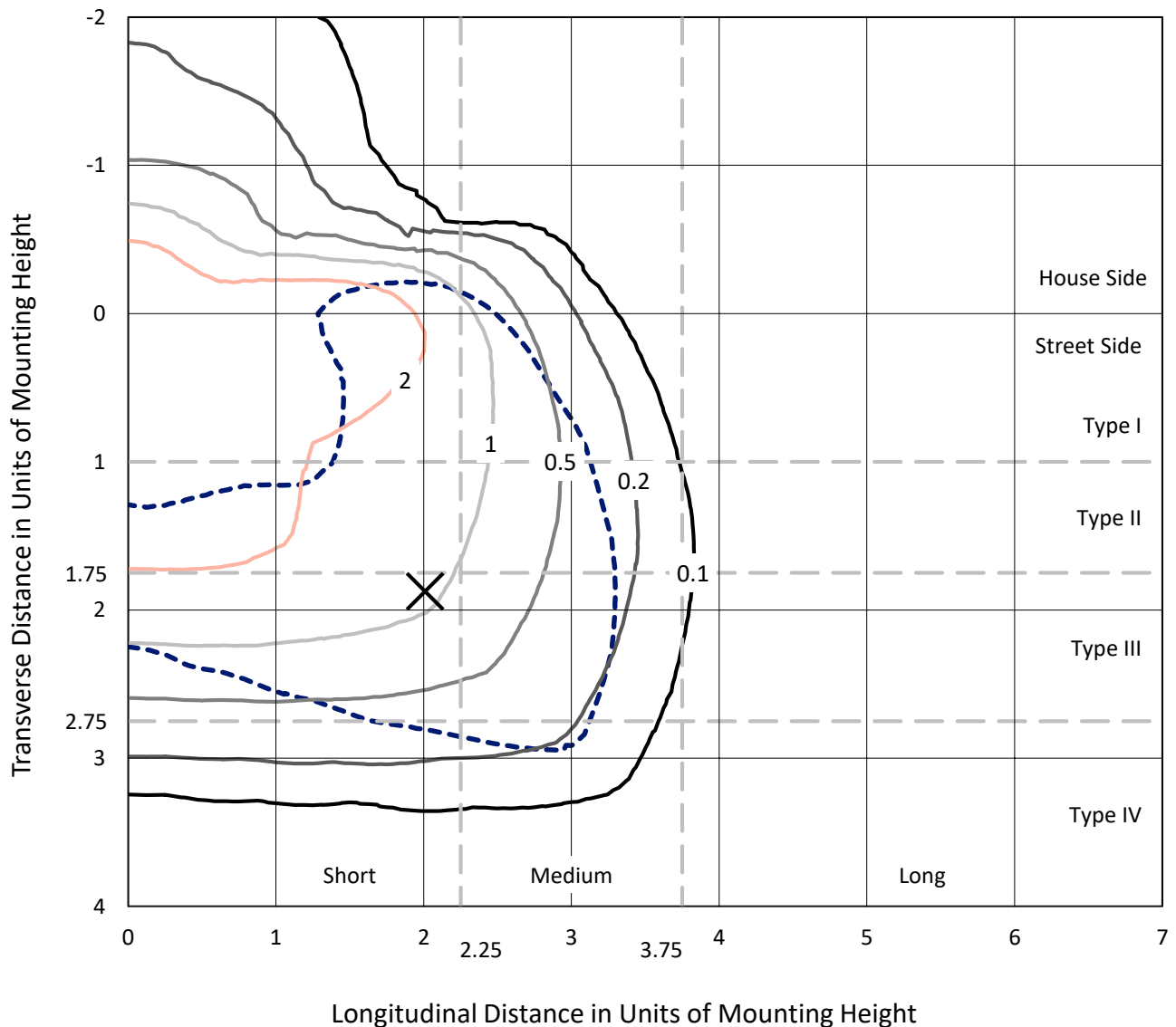


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

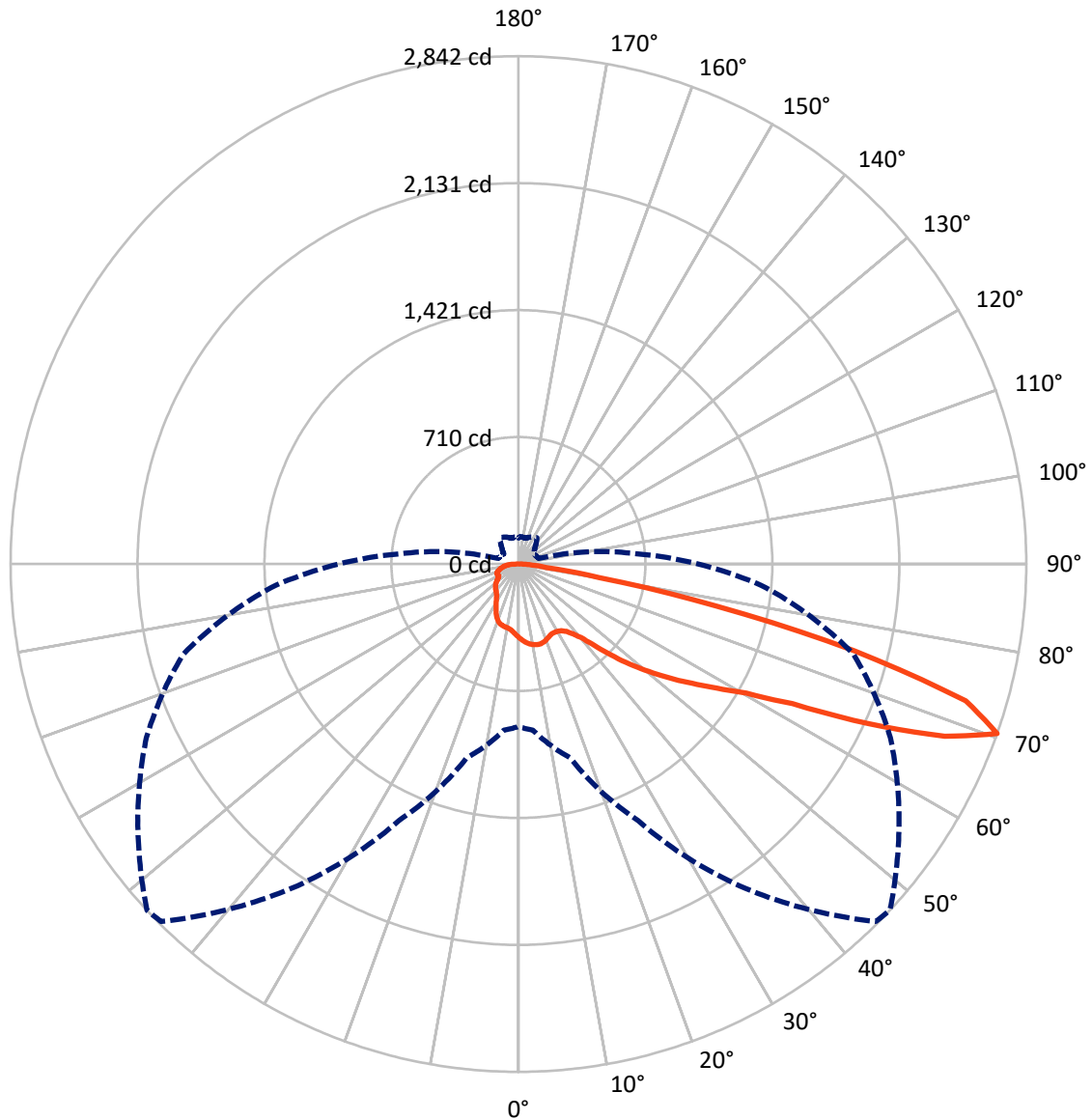


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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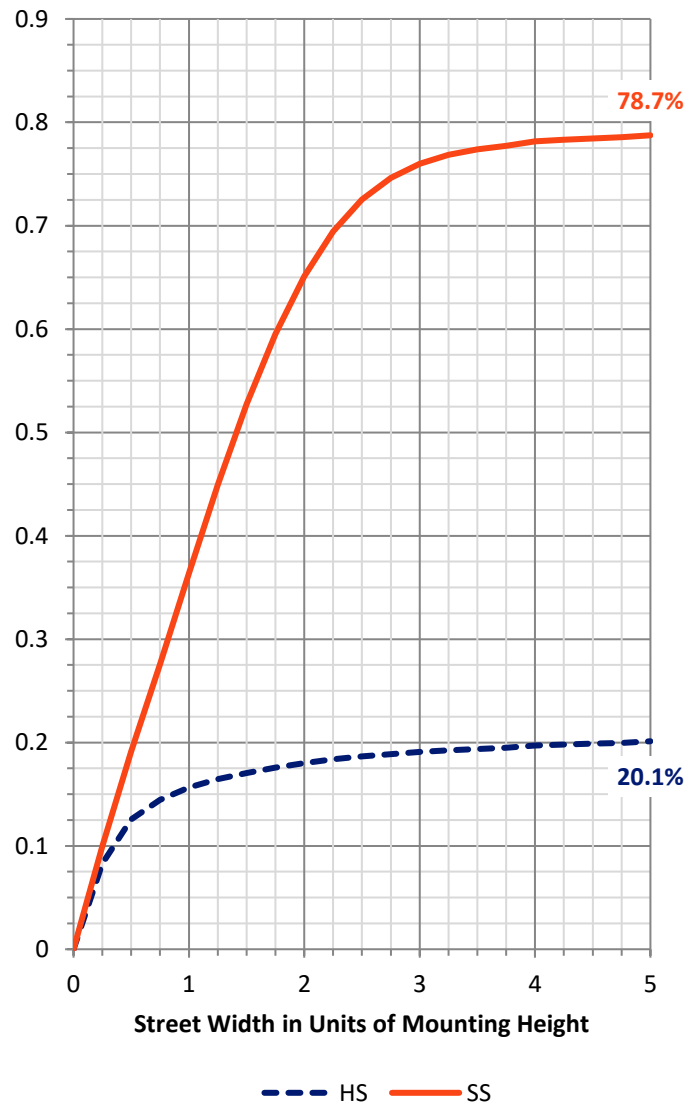
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	738.9	0.0	738.9
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	2803.2	0.0	2803.2
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	3542.1	0.0	3542.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.4	1.1
10°-20°	115.5	3.3
20°-30°	170.6	4.8
30°-40°	248.0	7.0
40°-50°	446.3	12.6
50°-60°	773.1	21.8
60°-70°	1103.5	31.2
70°-80°	566.5	16.0
80°-90°	79.3	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°	3542.1	100.0
0°-180°	3542.1	100.0



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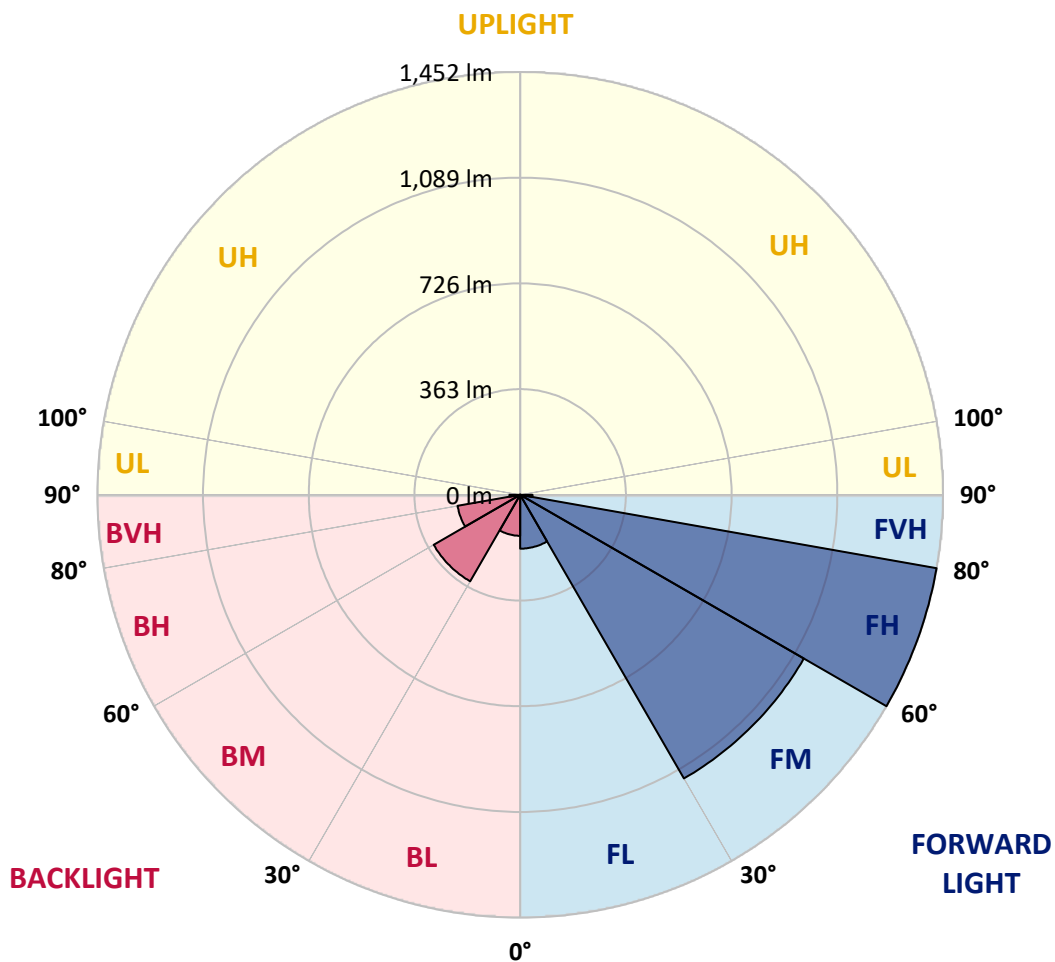
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	184.8	5.2			
FM	(30°-60°)	1124.4	31.7			
FH	(60°-80°)	1451.7	41.0			G1/1800
FVH	(80°-90°)	42.3	1.2			G1/100
BL	(0°-30°)	140.7	4.0	B1/500		
BM	(30°-60°)	343.0	9.7	B1/1000		
BH	(60°-80°)	218.3	6.2	B1/500		G1/500
BVH	(80°-90°)	37.0	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-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1
2.5°	435.0	434.3	433.9	433.3	432.4	428.0	427.2	424.1	419.8	415.2	410.6
5°	463.7	463.5	461.6	458.2	452.7	443.3	441.0	433.4	423.2	413.4	403.6
7.5°	488.9	487.3	483.7	476.8	467.2	454.3	451.2	440.7	426.6	413.2	399.9
10°	507.4	506.5	498.6	489.0	476.6	462.2	458.6	446.8	431.5	414.5	397.9
12.5°	517.9	516.2	507.1	495.7	480.7	466.7	463.0	451.2	433.9	414.5	395.0
15°	517.2	515.9	506.9	494.3	479.2	466.9	463.7	451.8	433.4	412.7	391.2
17.5°	503.4	503.9	496.1	483.8	471.5	462.2	459.3	448.3	430.0	409.3	386.7
20°	479.2	481.6	476.6	465.6	458.8	452.3	450.5	441.2	424.5	404.2	381.9
22.5°	455.1	457.3	455.4	446.2	445.1	441.3	440.3	433.6	420.0	401.2	378.9
25°	437.4	439.5	439.1	431.1	434.3	434.2	433.3	430.0	418.9	401.2	379.4
27.5°	432.5	433.3	432.5	425.3	429.6	433.1	432.4	431.8	422.1	406.2	386.0
30°	449.2	448.1	442.8	428.0	432.1	436.8	436.1	436.4	431.4	419.2	400.6
32.5°	515.1	510.4	493.6	452.3	441.8	444.4	444.8	450.5	451.3	439.5	423.5
35°	613.8	608.6	586.8	517.6	472.4	463.3	463.3	472.0	477.2	468.3	458.8
37.5°	718.5	712.7	701.0	607.9	536.5	496.4	495.4	501.4	508.9	511.0	513.4
40°	837.3	831.3	834.5	709.1	625.8	553.4	541.0	536.7	556.8	570.1	589.4
42.5°	967.5	964.7	965.9	821.9	727.7	638.6	621.3	599.0	623.2	646.7	687.3
45°	1087.8	1090.4	1089.1	942.9	841.2	742.7	724.4	681.3	704.8	745.4	811.3
47.5°	1193.4	1183.3	1198.9	1074.8	968.2	859.1	836.5	778.7	802.6	852.8	964.3
50°	1321.3	1320.0	1297.3	1250.9	1121.7	976.3	946.5	879.6	916.8	986.2	1157.1
52.5°	1456.1	1431.0	1410.2	1387.9	1284.5	1096.2	1059.6	980.1	1050.8	1138.2	1392.3
55°	1483.6	1472.3	1498.3	1535.7	1441.5	1220.7	1178.1	1106.1	1201.8	1312.0	1663.3
57.5°	1542.5	1542.3	1595.7	1662.5	1603.1	1352.9	1310.1	1258.2	1371.5	1510.9	1951.1
60°	1582.4	1593.6	1692.8	1822.2	1761.8	1505.6	1466.2	1433.8	1564.6	1733.5	2219.3
62.5°	1603.1	1618.3	1753.9	1887.0	1986.2	1759.8	1720.3	1673.6	1820.0	1977.4	2376.0
65°	1516.5	1546.3	1744.2	1943.0	2182.7	2171.8	2154.0	2072.1	2139.3	2170.2	2319.3
67.5°	1276.6	1307.2	1537.7	1890.8	2322.9	2569.2	2573.0	2432.9	2335.8	2186.8	1950.1
70°	909.5	933.5	1124.3	1585.2	2216.1	2828.9	2841.9	2599.2	2296.5	1939.4	1362.4
72.5°	431.8	446.5	627.0	1031.8	1758.6	2592.0	2616.9	2386.8	1952.8	1435.9	743.3
75°	158.7	163.2	212.0	438.9	1020.0	1911.5	1940.9	1711.0	1294.5	714.8	283.1
77.5°	95.1	98.1	118.8	185.2	401.2	1092.6	1136.1	930.6	565.8	266.1	139.2
80°	66.6	68.6	85.2	115.3	189.5	416.4	455.1	379.9	225.5	168.3	101.2
82.5°	44.9	46.1	59.9	78.0	125.9	148.7	160.4	168.9	152.1	125.3	64.3
85°	29.5	30.5	40.7	51.4	80.0	76.8	78.6	99.4	111.0	85.1	35.7
87.5°	16.9	17.5	24.4	27.4	39.3	32.6	32.9	52.5	71.0	57.4	21.6
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°	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1
2.5°	409.4	407.2	402.3	399.0	396.2	395.6	394.3	394.0	393.9	393.9	393.4
5°	400.4	396.5	388.7	384.5	380.8	380.5	380.3	381.2	381.5	381.9	381.4
7.5°	394.4	389.2	379.7	373.4	369.2	368.0	369.8	373.8	376.4	377.4	376.8
10°	390.9	384.5	373.2	366.6	362.9	362.3	364.6	369.4	374.7	376.7	376.5
12.5°	386.7	379.4	367.5	360.5	358.5	359.5	362.3	366.7	372.3	375.5	375.8
15°	382.6	374.1	361.8	355.6	354.8	356.2	359.0	362.2	366.6	369.8	370.1
17.5°	377.6	368.8	356.5	350.2	349.5	350.2	350.3	352.0	354.8	358.0	358.9
20°	372.3	363.3	350.5	344.1	341.0	338.3	335.2	335.5	336.3	339.5	340.2
22.5°	368.5	359.5	345.8	337.0	328.8	320.5	314.3	313.5	313.8	316.5	317.2
25°	368.8	359.3	344.7	329.5	311.4	298.1	289.9	288.4	288.3	290.2	291.4
27.5°	375.5	366.0	349.1	321.8	292.5	272.7	264.0	262.9	261.5	262.1	263.6
30°	390.6	381.7	360.0	313.8	271.9	248.0	238.9	237.8	236.0	235.0	236.1
32.5°	414.9	407.7	375.9	306.2	251.4	226.8	217.5	215.2	214.1	213.0	213.8
35°	455.6	452.6	397.1	298.0	233.3	210.5	201.9	198.5	196.8	198.6	200.1
37.5°	519.4	521.1	424.8	285.0	219.4	199.6	192.4	188.6	185.9	187.4	189.1
40°	609.7	610.8	455.5	266.7	207.2	193.1	185.6	181.9	178.4	175.6	175.3
42.5°	728.3	715.9	485.7	246.9	193.3	189.3	180.7	176.2	170.8	163.2	161.7
45°	868.9	826.0	508.5	224.1	177.7	184.4	175.3	169.2	160.5	152.4	151.5
47.5°	1030.8	943.9	519.7	200.6	163.0	177.3	168.9	159.1	148.2	144.1	143.5
50°	1228.7	1084.2	525.1	177.7	150.2	168.1	159.4	147.9	138.7	137.9	137.4
52.5°	1453.9	1252.6	526.8	158.9	139.7	155.9	151.6	140.4	133.2	133.8	133.8
55°	1689.7	1426.7	503.4	145.3	130.2	143.5	146.5	137.5	131.5	134.2	135.3
57.5°	1906.2	1580.9	429.6	134.7	121.0	134.0	144.5	140.2	136.2	147.3	148.0
60°	2072.2	1672.0	320.9	125.3	114.3	130.9	149.6	150.7	151.9	178.6	182.1
62.5°	2107.1	1641.7	220.5	117.9	111.1	133.6	158.7	158.9	157.7	176.2	178.6
65°	1947.3	1450.0	160.4	113.7	108.5	138.6	166.5	162.9	154.9	169.1	164.8
67.5°	1546.4	1092.3	133.6	110.6	104.8	138.2	174.7	166.5	153.4	165.6	158.9
70°	1003.8	660.6	118.8	108.1	100.3	131.6	179.7	166.1	148.8	154.1	146.2
72.5°	489.8	295.4	109.1	104.3	95.6	122.4	179.4	163.0	144.3	143.9	139.5
75°	191.6	135.3	100.2	98.5	87.8	112.2	174.6	158.6	138.7	133.2	131.6
77.5°	112.2	96.5	88.8	90.1	78.2	101.9	167.5	150.7	131.2	124.5	122.9
80°	81.7	72.3	75.6	78.0	66.8	91.4	158.0	141.4	122.7	125.9	123.5
82.5°	52.5	46.5	61.4	63.6	55.7	80.9	147.7	131.3	110.9	100.6	98.3
85°	26.7	29.5	45.6	48.4	42.8	66.6	135.1	118.0	97.3	83.7	85.1
87.5°	15.0	20.1	29.1	32.6	30.4	51.2	109.7	97.3	79.4	64.6	56.9
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)