

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: P319155

Luminaire Tested: **GLEON-SA1B-827-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319155  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA1B-827-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4368 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

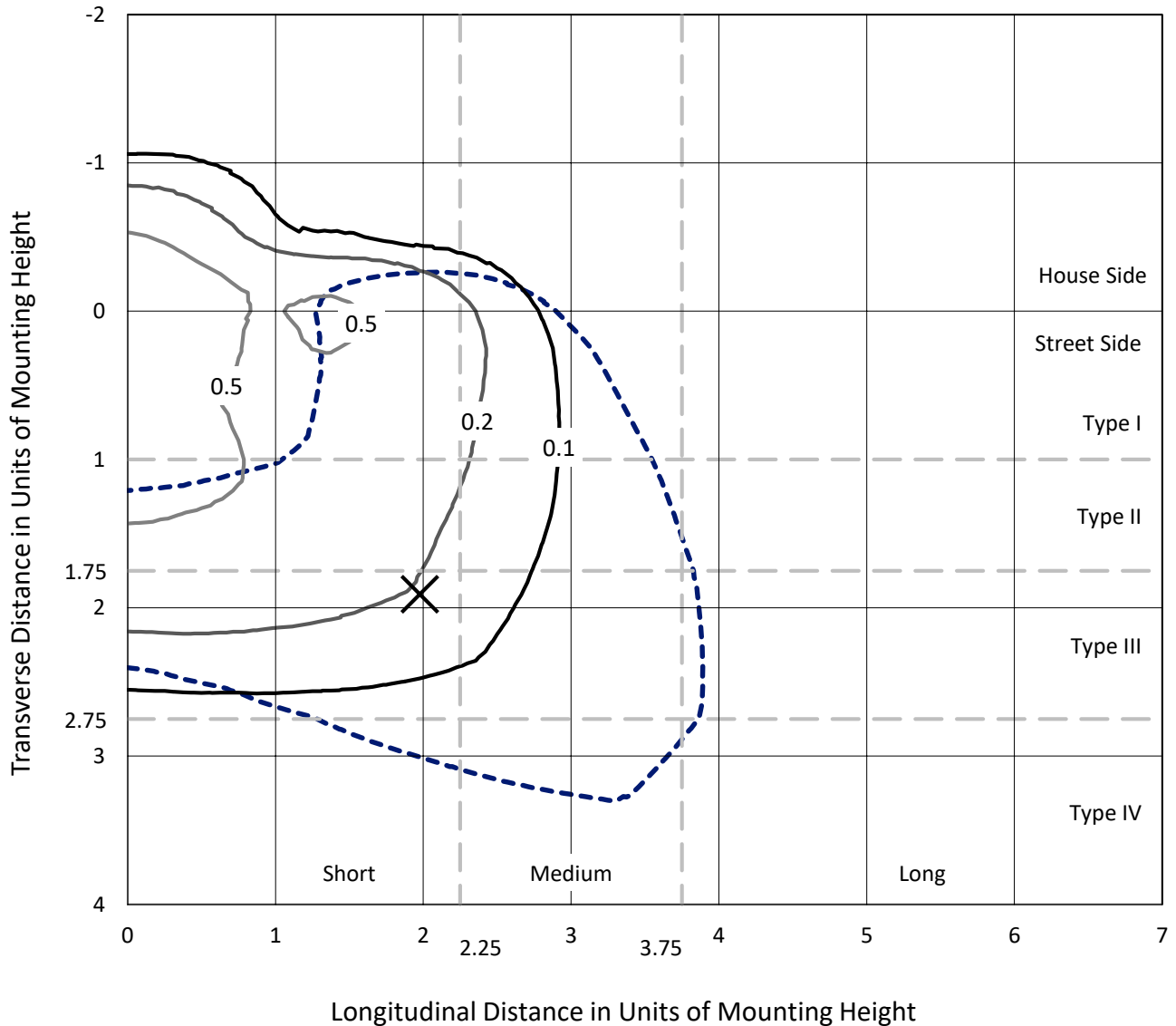
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

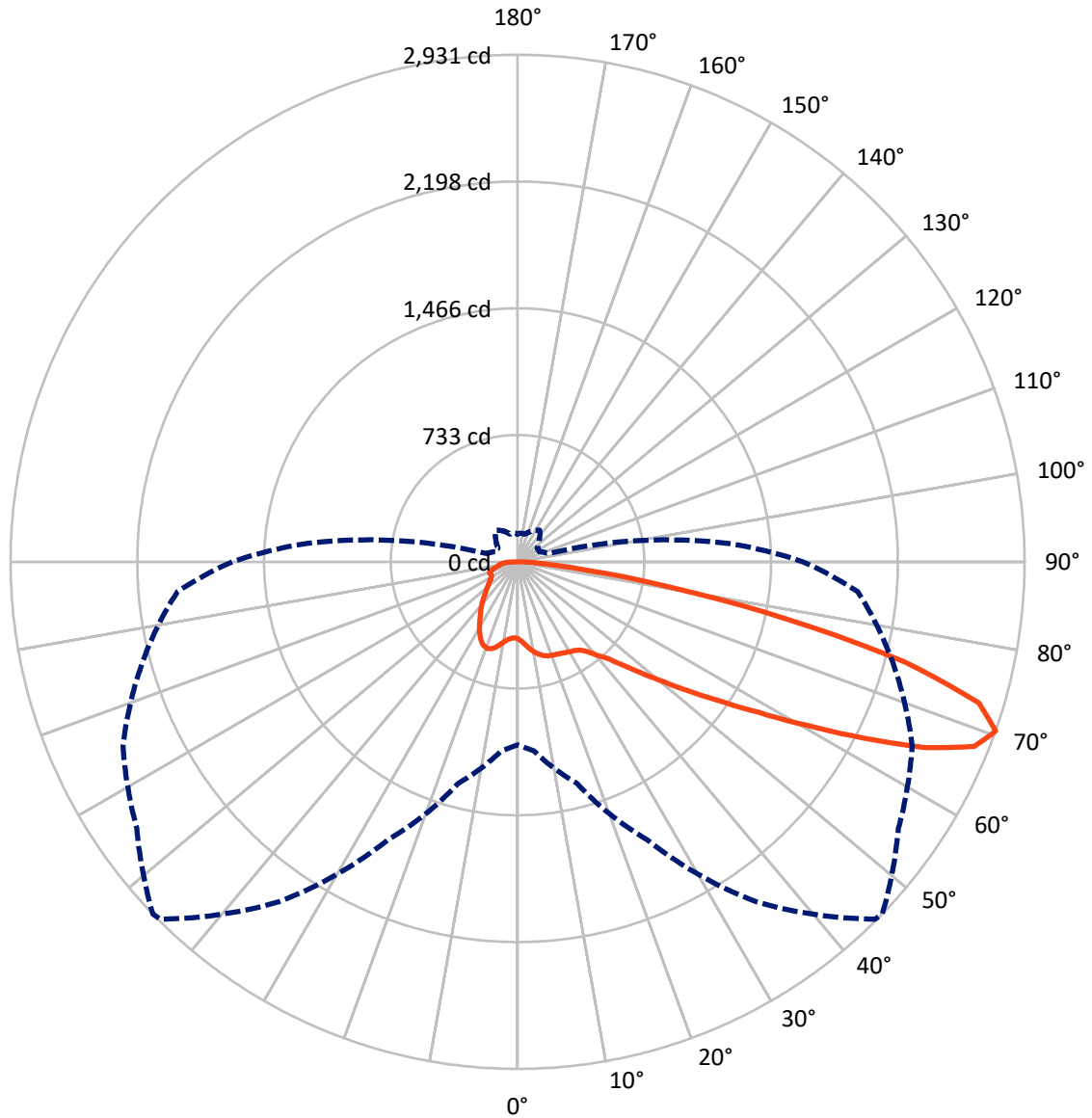
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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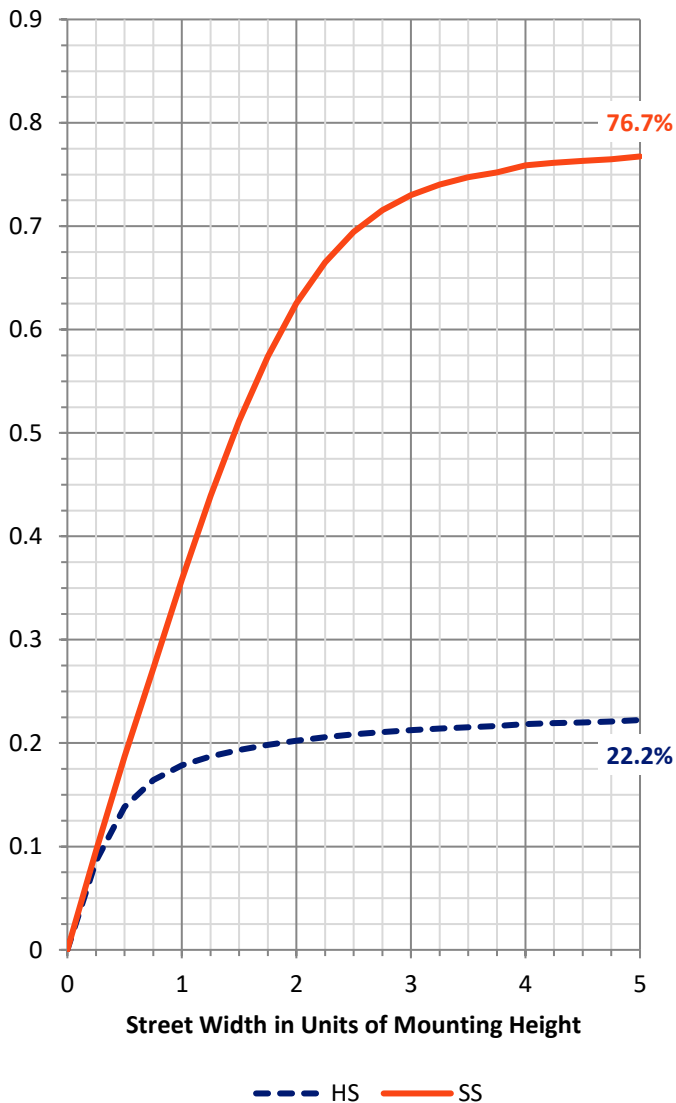
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1001.1	0.0	1001.1
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	3366.9	0.0	3366.9
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	4368.0	0.0	4368.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.4	1.0
10°-20°	151.1	3.5
20°-30°	252.0	5.8
30°-40°	357.6	8.2
40°-50°	526.1	12.0
50°-60°	890.9	20.4
60°-70°	1264.6	29.0
70°-80°	768.2	17.6
80°-90°	112.1	2.6
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°	4368.0	100.0
0°-180°	4368.0	100.0

**Coefficient of Utilization**



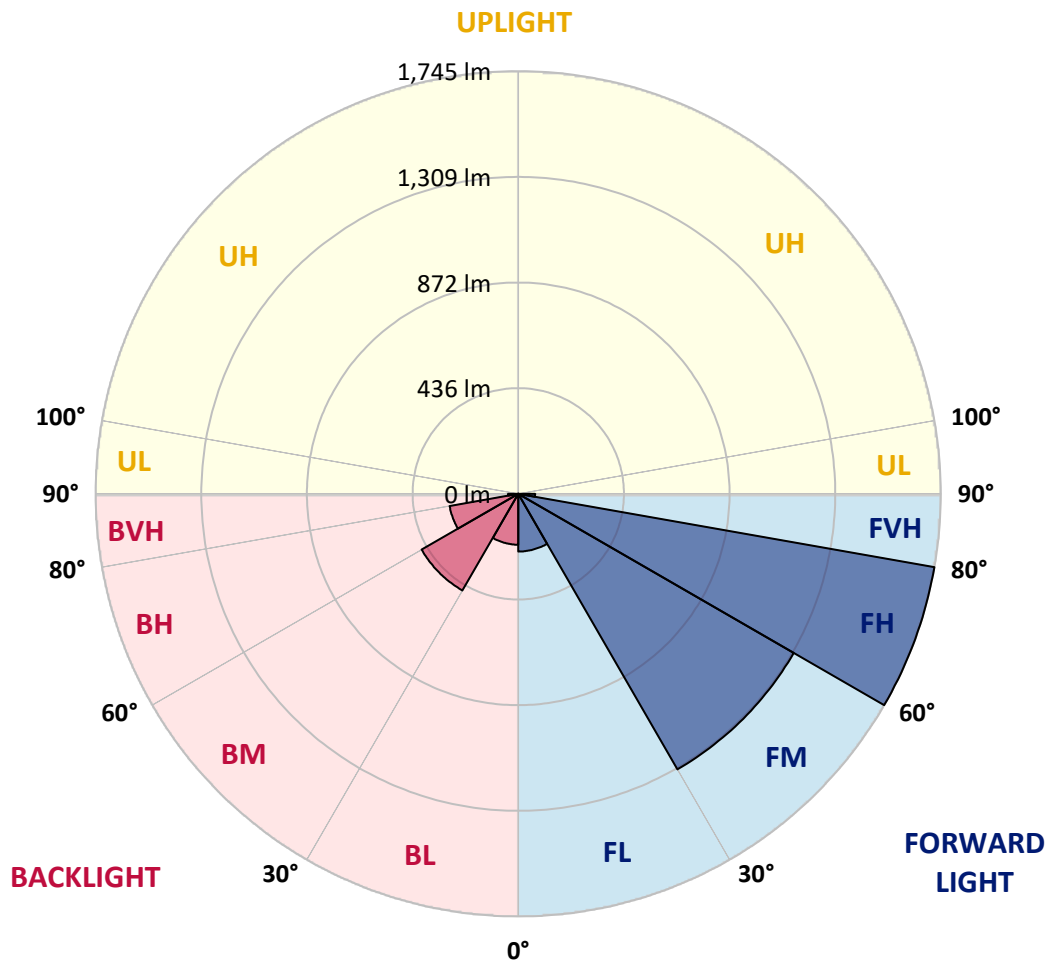
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	238.3	5.5			
FM (30°-60°)	1313.7	30.1			
FH (60°-80°)	1745.0	39.9			G1/1800
FVH (80°-90°)	69.8	1.6			G1/100
BL (0°-30°)	210.2	4.8	B1/500		
BM (30°-60°)	460.8	10.6	B1/1000		
BH (60°-80°)	287.8	6.6	B1/500		G1/500
BVH (80°-90°)	42.3	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-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	445.0	445.0	445.0	445.0	445.0	445.0	445.0	445.0	445.0	445.0	445.0
2.5°	467.3	467.6	468.2	466.7	462.5	461.3	460.9	456.5	453.7	449.5	445.9
5°	504.7	505.0	504.1	499.9	490.6	483.7	483.1	473.3	464.3	454.7	447.6
7.5°	543.7	544.1	541.3	533.4	520.4	508.4	507.6	494.2	480.6	466.1	455.3
10°	578.2	576.4	571.8	560.7	545.3	530.7	530.1	516.0	500.3	482.8	468.5
12.5°	601.2	599.7	593.8	580.3	563.4	550.0	548.8	535.8	520.5	501.4	484.2
15°	613.9	615.0	606.9	591.7	575.2	563.9	562.8	553.5	539.9	520.7	500.9
17.5°	615.6	616.5	608.7	593.6	580.1	572.4	571.9	565.8	555.9	537.4	516.8
20°	606.0	606.6	600.2	587.8	579.0	576.6	576.4	573.7	566.4	550.0	529.9
22.5°	592.1	592.6	587.9	579.0	576.0	579.7	580.7	579.7	574.5	559.1	540.2
25°	588.7	588.4	583.6	574.5	577.0	584.9	586.3	586.7	583.1	569.7	553.4
27.5°	605.3	604.2	595.1	580.4	582.1	591.7	593.5	597.8	595.5	583.7	568.3
30°	653.2	651.5	632.8	603.2	595.1	600.0	602.3	609.1	609.6	599.7	588.2
32.5°	734.3	732.0	698.5	645.6	617.1	608.5	610.6	621.0	626.5	618.9	606.5
35°	836.7	834.1	790.2	717.8	653.8	624.8	626.3	634.6	645.6	634.9	618.4
37.5°	943.4	937.3	895.0	802.7	712.3	659.7	659.7	660.7	666.0	643.5	632.5
40°	1049.5	1043.4	1005.1	902.6	787.9	714.5	711.1	687.9	683.7	664.5	660.7
42.5°	1148.2	1146.4	1123.8	1015.4	876.7	768.5	763.7	724.4	725.3	713.3	713.5
45°	1253.1	1253.1	1234.7	1129.4	980.2	855.2	850.4	792.6	801.5	796.0	809.3
47.5°	1338.8	1341.5	1338.9	1248.0	1100.5	965.4	956.7	887.0	912.2	931.1	969.9
50°	1426.2	1430.4	1430.9	1378.2	1245.9	1096.3	1086.4	1012.5	1068.5	1122.9	1199.0
52.5°	1553.1	1562.6	1525.0	1508.1	1424.1	1251.8	1242.1	1173.7	1267.3	1343.7	1474.8
55°	1670.8	1662.6	1635.8	1646.3	1614.9	1428.8	1421.4	1361.5	1488.9	1588.1	1758.4
57.5°	1734.5	1733.9	1760.8	1805.6	1820.6	1647.0	1640.9	1582.6	1738.6	1813.2	2024.6
60°	1809.2	1810.3	1876.9	1978.7	2040.3	1918.8	1916.1	1871.8	1981.3	2023.4	2233.4
62.5°	1819.7	1838.5	1953.3	2128.5	2246.0	2236.3	2242.3	2132.4	2198.3	2191.1	2389.4
65°	1699.3	1724.1	1931.9	2173.8	2450.5	2583.5	2589.1	2394.4	2369.5	2334.5	2445.1
67.5°	1452.7	1489.5	1715.2	2075.3	2517.9	2840.2	2848.0	2597.6	2511.5	2383.1	2310.9
70°	1057.2	1098.0	1325.2	1772.4	2397.7	2922.3	2931.1	2687.4	2516.9	2244.8	1972.7
72.5°	638.6	670.6	857.9	1304.8	2023.7	2772.8	2788.5	2573.5	2297.9	1901.4	1456.7
75°	280.4	301.4	414.8	751.9	1448.8	2294.1	2313.7	2202.8	1867.1	1381.8	861.0
77.5°	119.4	125.4	170.1	326.6	819.0	1567.6	1594.5	1609.5	1266.7	751.9	363.8
80°	74.4	76.8	96.3	147.8	383.3	880.5	909.5	947.0	629.0	276.4	127.1
82.5°	45.3	48.0	64.0	89.4	199.6	399.1	413.0	439.5	244.1	119.4	65.8
85°	27.2	29.1	39.2	56.5	113.6	157.0	156.8	173.4	115.0	76.8	34.7
87.5°	13.0	14.5	20.9	29.3	57.3	58.9	55.2	62.5	69.8	50.4	17.5
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°	445.0	445.0	445.0	445.0	445.0	445.0	445.0	445.0	445.0	445.0	445.0
2.5°	444.7	444.1	442.2	440.7	440.4	439.5	438.7	439.2	439.8	439.9	439.9
5°	444.6	442.9	440.4	439.3	440.7	442.5	444.7	447.7	449.5	450.8	451.7
7.5°	451.7	448.6	445.8	445.2	447.9	452.6	457.7	464.0	468.3	471.3	471.9
10°	463.7	459.8	457.0	457.6	462.4	469.2	476.4	484.5	491.1	495.1	495.4
12.5°	477.5	473.7	471.0	473.6	481.5	489.9	497.3	504.4	510.3	514.4	514.4
15°	493.3	490.6	487.5	493.3	504.1	511.5	514.7	518.1	521.4	524.4	523.8
17.5°	508.5	506.0	504.4	511.2	522.4	525.9	523.8	521.3	521.3	522.9	523.2
20°	521.7	519.5	520.5	527.2	533.1	529.5	521.7	513.6	510.3	511.2	512.1
22.5°	533.2	532.2	535.3	538.4	534.3	521.7	507.3	496.4	492.4	492.1	492.4
25°	546.7	546.5	550.4	544.7	526.2	503.0	483.7	473.1	470.9	472.7	475.7
27.5°	563.4	565.0	567.0	546.2	509.7	474.8	455.2	447.9	450.1	454.4	457.3
30°	584.8	589.3	585.1	542.5	486.1	442.5	423.8	421.7	427.8	434.0	436.9
32.5°	605.6	612.6	602.4	532.8	455.6	408.2	393.7	393.1	400.6	406.6	410.8
35°	622.3	636.2	615.4	513.5	420.3	376.7	366.1	362.1	364.7	371.8	376.6
37.5°	644.1	667.3	624.4	484.0	382.1	350.7	338.3	329.0	326.6	329.5	331.9
40°	684.0	714.7	628.6	442.9	344.7	324.7	312.1	298.5	289.1	282.2	282.4
42.5°	749.2	776.4	625.9	393.0	310.2	299.3	285.1	269.4	254.1	238.6	237.4
45°	855.0	868.2	617.8	340.1	279.8	272.7	259.4	243.7	223.3	205.7	204.0
47.5°	1024.4	995.3	605.3	293.9	253.1	250.1	237.8	219.7	198.2	184.0	182.8
50°	1255.4	1178.7	599.1	257.1	229.5	230.4	220.3	201.2	180.9	170.4	169.2
52.5°	1531.6	1392.3	610.9	228.7	210.5	213.6	206.1	188.2	171.2	162.9	161.7
55°	1818.2	1613.5	623.6	208.1	192.5	198.7	196.1	181.3	165.9	158.3	157.3
57.5°	2063.5	1778.7	598.2	191.3	176.5	186.1	188.3	177.0	163.2	156.4	155.2
60°	2217.9	1845.2	531.6	175.6	163.8	176.1	183.9	175.8	164.3	163.7	162.8
62.5°	2291.1	1839.4	431.6	163.2	155.9	171.8	187.2	182.5	176.2	181.6	182.1
65°	2258.3	1751.5	321.4	155.0	150.2	173.4	197.0	195.2	179.7	185.1	185.8
67.5°	2041.8	1541.8	238.0	147.8	144.0	178.0	215.0	199.4	173.0	176.8	174.4
70°	1650.3	1222.3	183.6	139.8	137.5	177.4	223.0	196.9	165.6	166.5	160.1
72.5°	1138.0	833.5	149.3	132.3	128.3	161.7	217.3	190.6	159.5	152.6	144.1
75°	618.9	447.4	126.9	124.5	112.0	142.0	206.9	186.1	154.0	144.8	140.1
77.5°	243.5	185.7	110.2	113.9	97.9	125.4	195.2	177.6	146.3	134.4	132.0
80°	99.4	94.8	91.3	98.5	84.2	109.7	181.2	167.6	137.2	124.7	119.9
82.5°	56.4	58.9	71.0	77.7	68.3	101.1	174.4	159.5	126.3	111.7	106.0
85°	28.9	34.5	49.5	55.8	50.2	86.0	160.7	139.6	101.4	85.5	86.0
87.5°	13.9	19.3	31.2	35.0	32.6	62.2	120.0	101.2	78.9	62.5	60.5
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)