

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: P594180

Luminaire Tested: **ISC-PA1C-827-U-T4W**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594180  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISC-PA1C-827-U-T4W  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 80 CRI, 2700K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4996 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

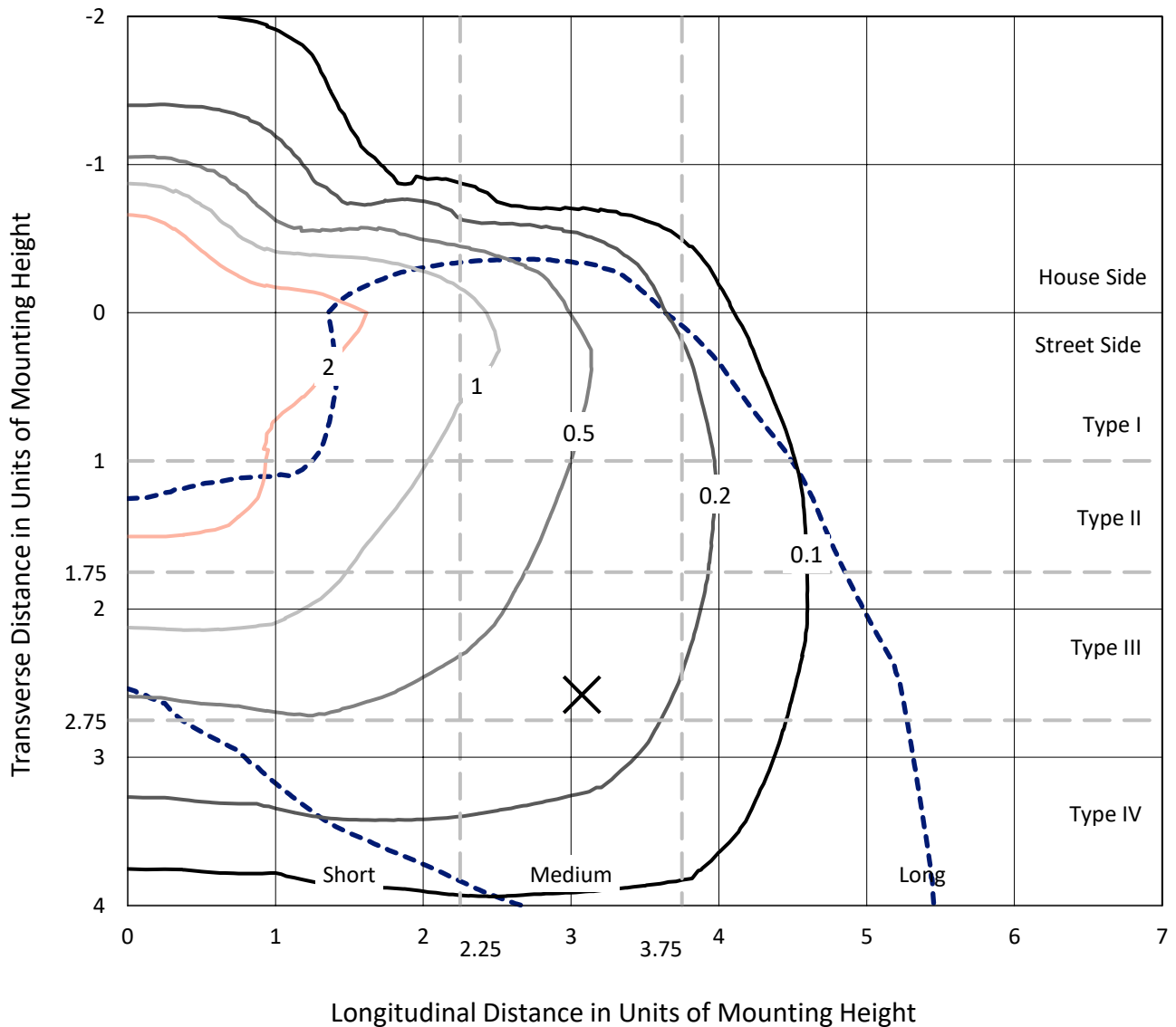
Input Watts (W): 48.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

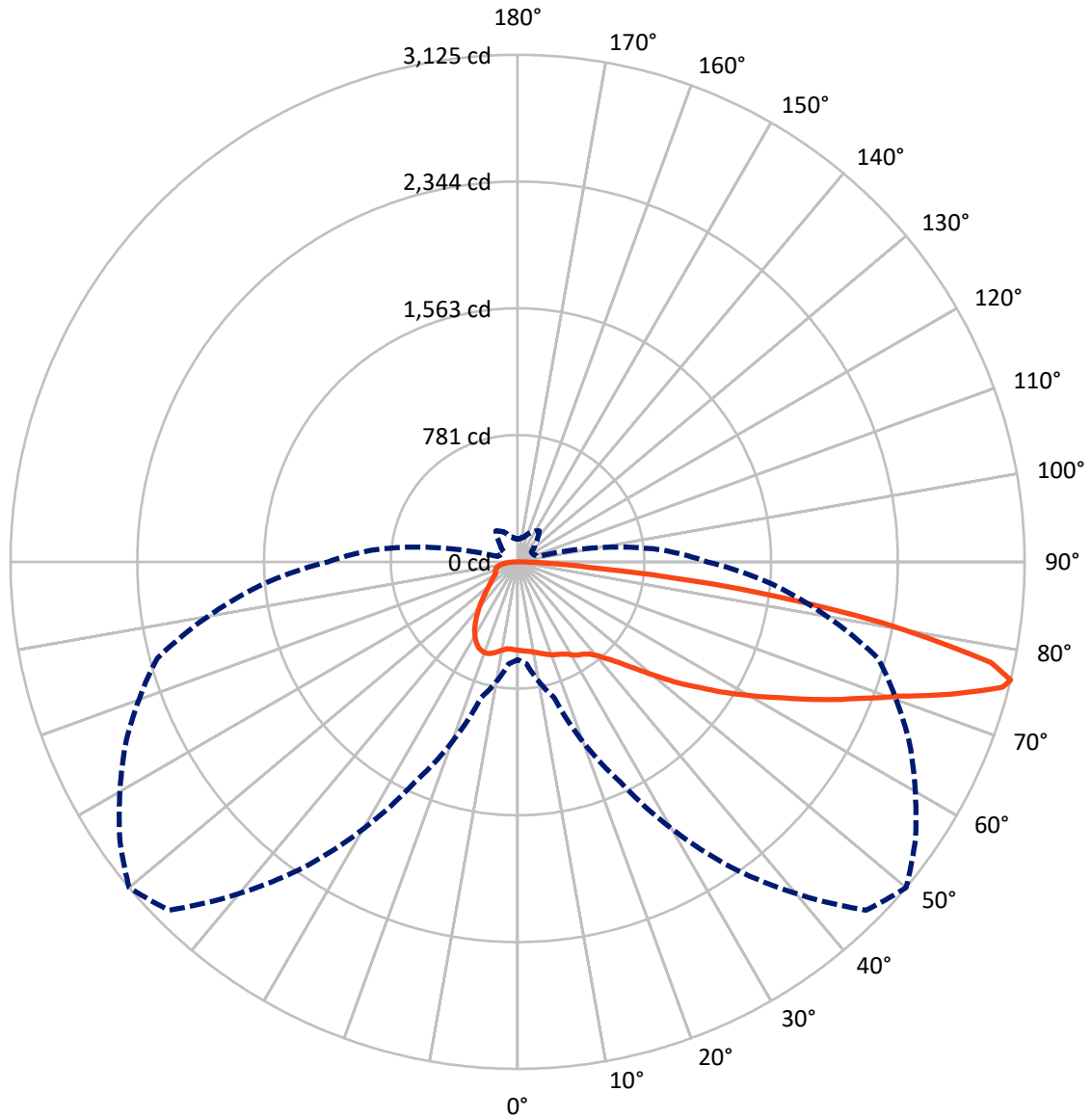
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral      - - - Horizontal Cone Through 76-Deg Vertical

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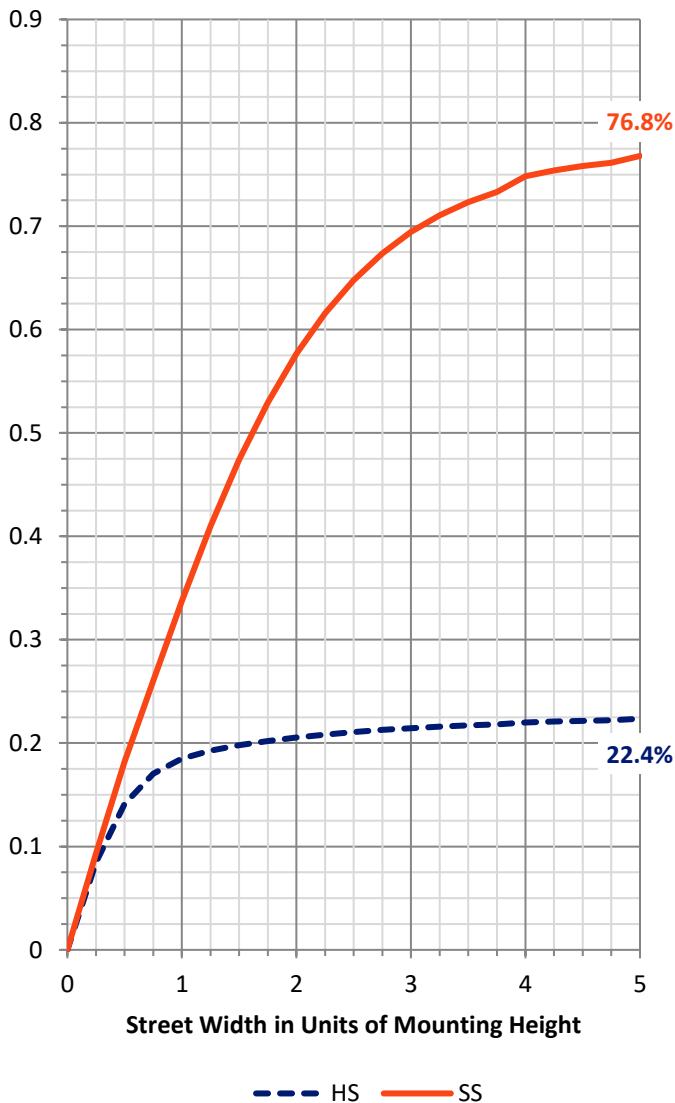
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1142.9	0.0	1142.9
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	3853.1	0.0	3853.1
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	4996.0	0.0	4996.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.9	1.1
10°-20°	166.2	3.3
20°-30°	280.8	5.6
30°-40°	384.9	7.7
40°-50°	566.9	11.3
50°-60°	891.8	17.9
60°-70°	1283.7	25.7
70°-80°	1167.2	23.4
80°-90°	201.5	4.0
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°	4996.0	100.0
0°-180°	4996.0	100.0

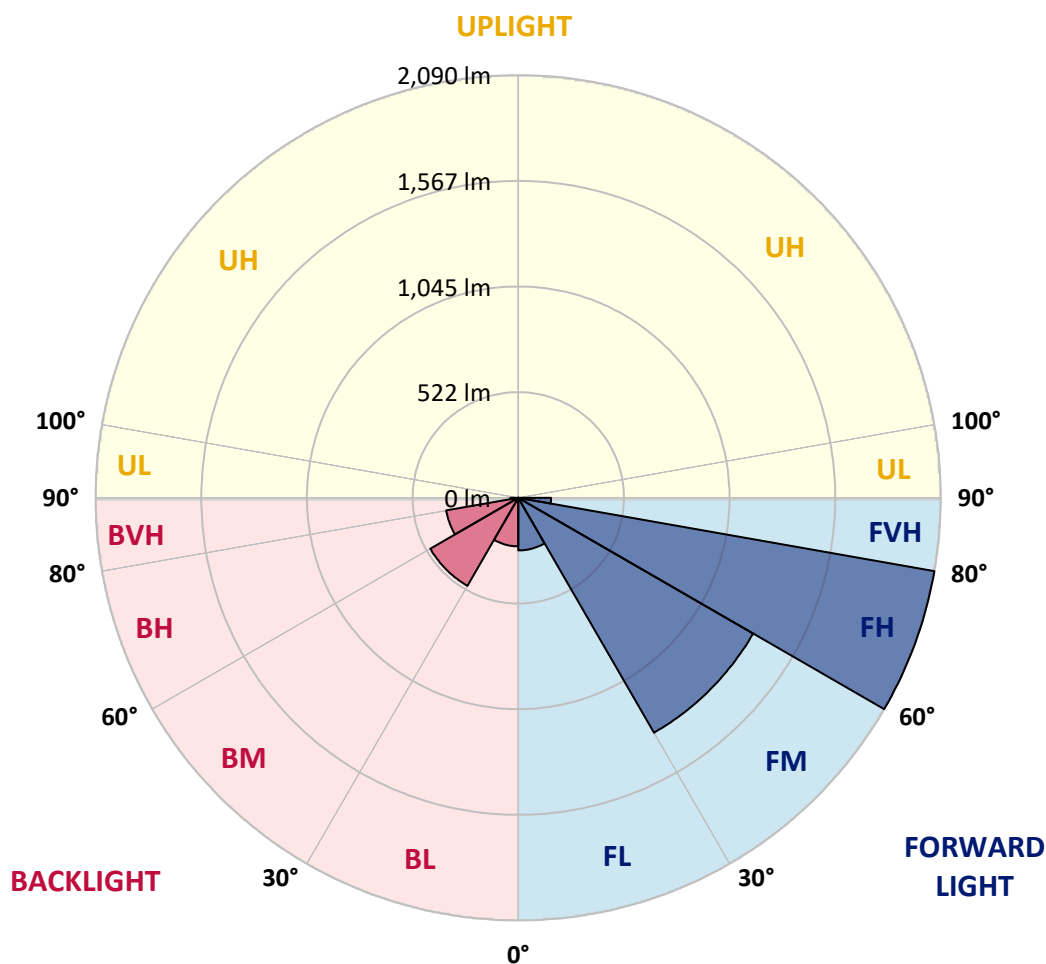


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	260.0	5.2			
FM (30°-60°)	1341.3	26.8			
FH (60°-80°)	2089.5	41.8			G2/5000
FVH (80°-90°)	162.2	3.2			G2/225
BL (0°-30°)	239.9	4.8	B1/500		
BM (30°-60°)	502.3	10.1	B1/1000		
BH (60°-80°)	361.3	7.2	B1/500		G1/500
BVH (80°-90°)	39.3	0.8			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	544.6	544.6	544.6	544.6	544.6	544.6	544.6	544.6	544.6	544.6	544.6
2.5°	556.8	556.8	558.0	555.6	555.6	549.4	549.4	548.2	545.8	544.6	542.1
5°	577.6	577.6	573.9	567.8	564.1	556.8	553.1	550.7	545.8	539.7	533.5
7.5°	599.6	597.2	594.7	584.9	577.6	564.1	558.0	554.3	544.6	536.0	532.3
10°	622.9	619.2	613.1	600.8	589.8	573.9	566.6	561.7	550.7	543.3	534.8
12.5°	636.3	636.3	629.0	614.3	599.6	580.0	576.4	570.3	559.2	549.4	540.9
15°	649.8	651.0	643.7	626.5	609.4	594.7	588.6	584.9	572.7	558.0	547.0
17.5°	663.3	662.0	654.7	635.1	616.8	603.3	599.6	594.7	582.5	569.0	558.0
20°	673.0	670.6	668.1	643.7	625.3	616.8	611.9	608.2	595.9	581.3	566.6
22.5°	675.5	677.9	675.5	646.1	631.4	621.6	620.4	616.8	607.0	593.5	578.8
25°	676.7	677.9	681.6	653.5	640.0	632.7	630.2	627.8	620.4	609.4	589.8
27.5°	682.8	684.1	684.1	658.4	651.0	646.1	643.7	643.7	640.0	626.5	607.0
30°	684.1	685.3	687.7	670.6	668.1	664.5	665.7	664.5	658.4	643.7	621.6
32.5°	692.6	693.8	700.0	677.9	680.4	684.1	685.3	684.1	671.8	659.6	641.2
35°	720.8	719.5	724.4	696.3	693.8	695.1	698.7	697.5	692.6	681.6	669.4
37.5°	811.3	811.3	797.9	739.1	720.8	718.3	720.8	726.9	728.1	718.3	708.5
40°	970.4	961.8	954.5	827.2	768.5	753.8	761.1	764.8	774.6	774.6	774.6
42.5°	1134.4	1135.6	1133.2	964.3	854.2	817.4	818.7	827.2	848.0	851.7	862.7
45°	1280.0	1288.6	1306.9	1123.4	980.2	898.2	889.6	898.2	927.6	952.0	980.2
47.5°	1393.8	1384.0	1424.4	1289.8	1124.6	1008.3	986.3	988.8	1029.1	1068.3	1112.4
50°	1491.7	1494.2	1512.5	1459.9	1306.9	1133.2	1103.8	1098.9	1156.4	1198.0	1272.7
52.5°	1601.8	1594.5	1621.4	1609.2	1484.4	1286.1	1239.6	1224.9	1287.3	1346.1	1426.9
55°	1654.5	1661.8	1716.9	1747.5	1652.0	1423.2	1371.8	1376.7	1442.8	1505.2	1617.7
57.5°	1747.5	1754.8	1818.4	1882.1	1801.3	1568.8	1523.5	1523.5	1598.2	1667.9	1841.7
60°	1874.7	1876.0	1940.8	2050.9	1932.2	1709.5	1680.2	1678.9	1759.7	1840.5	2106.0
62.5°	1931.0	1945.7	2042.4	2185.6	2103.6	1882.1	1847.8	1857.6	1929.8	2024.0	2400.9
65°	1855.2	1887.0	2088.9	2276.1	2256.5	2062.0	2048.5	2062.0	2106.0	2207.6	2713.0
67.5°	1604.3	1647.1	2003.2	2337.3	2378.9	2270.0	2250.4	2248.0	2276.1	2389.9	2910.0
70°	1474.6	1500.3	1776.8	2360.5	2476.8	2480.5	2480.5	2464.6	2460.9	2544.1	2928.3
72.5°	1213.9	1240.8	1499.0	2230.8	2569.8	2761.9	2790.1	2731.3	2640.8	2623.6	2621.2
75°	865.2	884.7	1107.5	1754.8	2451.1	3032.4	3088.7	2974.8	2722.8	2449.9	1911.4
76°	603.3	631.4	865.2	1499.0	2301.8	3037.3	3125.4	2993.2	2667.7	2300.6	1574.9
77.5°	305.9	315.7	500.5	1007.1	1926.1	2897.8	2983.4	2835.3	2427.8	1858.8	999.8
80°	116.3	119.9	178.7	367.1	1057.3	2250.4	2283.4	2084.0	1606.7	794.2	359.8
82.5°	61.2	63.6	100.3	181.1	434.4	1237.2	1396.3	1162.5	630.2	238.6	105.2
85°	30.6	33.0	58.7	110.1	215.4	386.7	447.9	423.4	209.3	90.6	39.2
87.5°	12.2	14.7	29.4	48.9	86.9	75.9	84.4	108.9	67.3	42.8	13.5
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°	544.6	544.6	544.6	544.6	544.6	544.6	544.6	544.6	544.6	544.6	544.6
2.5°	542.1	540.9	542.1	540.9	542.1	542.1	543.3	540.9	540.9	543.3	539.7
5°	533.5	532.3	533.5	536.0	537.2	539.7	544.6	543.3	545.8	548.2	549.4
7.5°	529.9	528.6	532.3	533.5	537.2	542.1	549.4	554.3	556.8	561.7	559.2
10°	533.5	533.5	538.4	542.1	548.2	554.3	560.5	565.4	571.5	575.1	573.9
12.5°	539.7	538.4	547.0	551.9	560.5	566.6	571.5	573.9	578.8	583.7	582.5
15°	545.8	547.0	559.2	569.0	578.8	581.3	582.5	580.0	582.5	584.9	584.9
17.5°	558.0	559.2	572.7	583.7	592.3	589.8	583.7	577.6	577.6	578.8	580.0
20°	567.8	570.3	586.2	595.9	600.8	591.1	581.3	573.9	570.3	571.5	570.3
22.5°	578.8	583.7	599.6	604.5	597.2	584.9	572.7	562.9	562.9	564.1	564.1
25°	592.3	594.7	605.7	603.3	589.8	571.5	561.7	558.0	556.8	558.0	559.2
27.5°	604.5	605.7	611.9	594.7	569.0	549.4	545.8	547.0	548.2	549.4	550.7
30°	620.4	622.9	616.8	582.5	543.3	521.3	521.3	528.6	531.1	534.8	533.5
32.5°	640.0	642.4	624.1	566.6	510.3	488.3	489.5	500.5	507.8	510.3	511.5
35°	673.0	668.1	629.0	544.6	474.8	447.9	449.1	462.6	472.4	476.0	473.6
37.5°	713.4	712.2	636.3	516.4	430.7	406.3	407.5	413.6	423.4	424.6	425.9
40°	780.7	770.9	648.6	479.7	386.7	363.4	361.0	364.7	363.4	365.9	367.1
42.5°	877.4	851.7	664.5	438.1	347.5	323.1	320.6	314.5	307.2	299.8	296.1
45°	991.2	950.8	684.1	395.3	307.2	285.1	279.0	271.7	257.0	241.1	236.2
47.5°	1138.1	1061.0	706.1	352.4	269.2	252.1	247.2	236.2	219.0	200.7	197.0
50°	1288.6	1190.7	728.1	316.9	238.6	228.8	223.9	212.9	190.9	173.8	170.1
52.5°	1463.6	1319.2	751.4	285.1	211.7	211.7	208.0	190.9	170.1	154.2	151.7
55°	1665.5	1451.3	788.1	254.5	192.1	197.0	192.1	175.0	155.4	144.4	143.2
57.5°	1906.5	1619.0	834.6	221.5	175.0	178.7	178.7	166.4	153.0	145.6	144.4
60°	2148.8	1789.1	863.9	197.0	161.5	165.2	172.5	166.4	157.9	154.2	153.0
62.5°	2381.3	1962.8	813.8	176.2	148.1	159.1	177.4	178.7	170.1	171.3	171.3
65°	2555.1	2095.0	658.4	157.9	139.5	162.8	192.1	193.3	178.7	175.0	173.8
67.5°	2615.1	2131.7	443.0	145.6	134.6	165.2	209.3	204.4	178.7	171.3	167.6
70°	2501.3	1997.1	287.6	134.6	127.3	162.8	222.7	210.5	177.4	166.4	161.5
72.5°	2097.4	1703.4	192.1	124.8	119.9	160.3	231.3	210.5	173.8	157.9	153.0
75°	1456.2	1163.8	143.2	112.6	108.9	156.6	233.7	206.8	165.2	148.1	144.4
76°	1168.6	872.5	129.7	107.7	104.0	154.2	232.5	203.1	159.1	143.2	139.5
77.5°	737.9	501.7	108.9	99.1	96.7	149.3	227.6	194.6	150.5	134.6	130.9
80°	258.2	183.6	83.2	80.8	82.0	138.3	214.1	177.4	133.4	118.7	113.8
82.5°	102.8	84.4	62.4	62.4	64.9	118.7	193.3	156.6	116.3	97.9	90.6
85°	40.4	36.7	44.1	44.1	46.5	96.7	161.5	122.4	79.5	61.2	58.7
87.5°	12.2	17.1	19.6	20.8	22.0	48.9	91.8	53.8	35.5	25.7	20.8
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)