

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: P593955

Luminaire Tested: **ISC-PA1A-727-U-T4W**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P593955  
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-PA1A-727-U-T4W  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 2700K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3483 lumens  
Efficiency: N/A  
Efficacy: 120.5 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

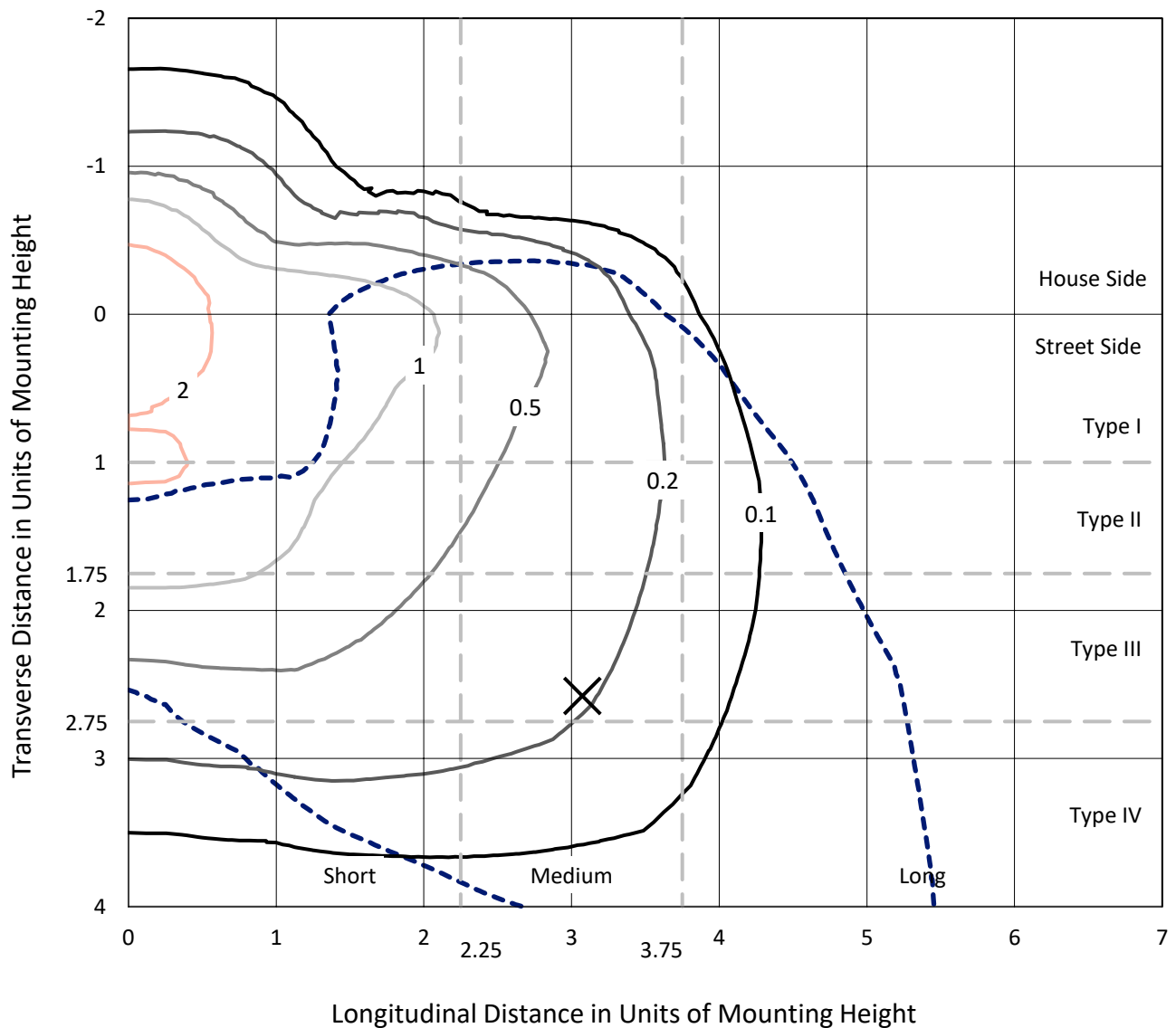
Input Watts (W): 28.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

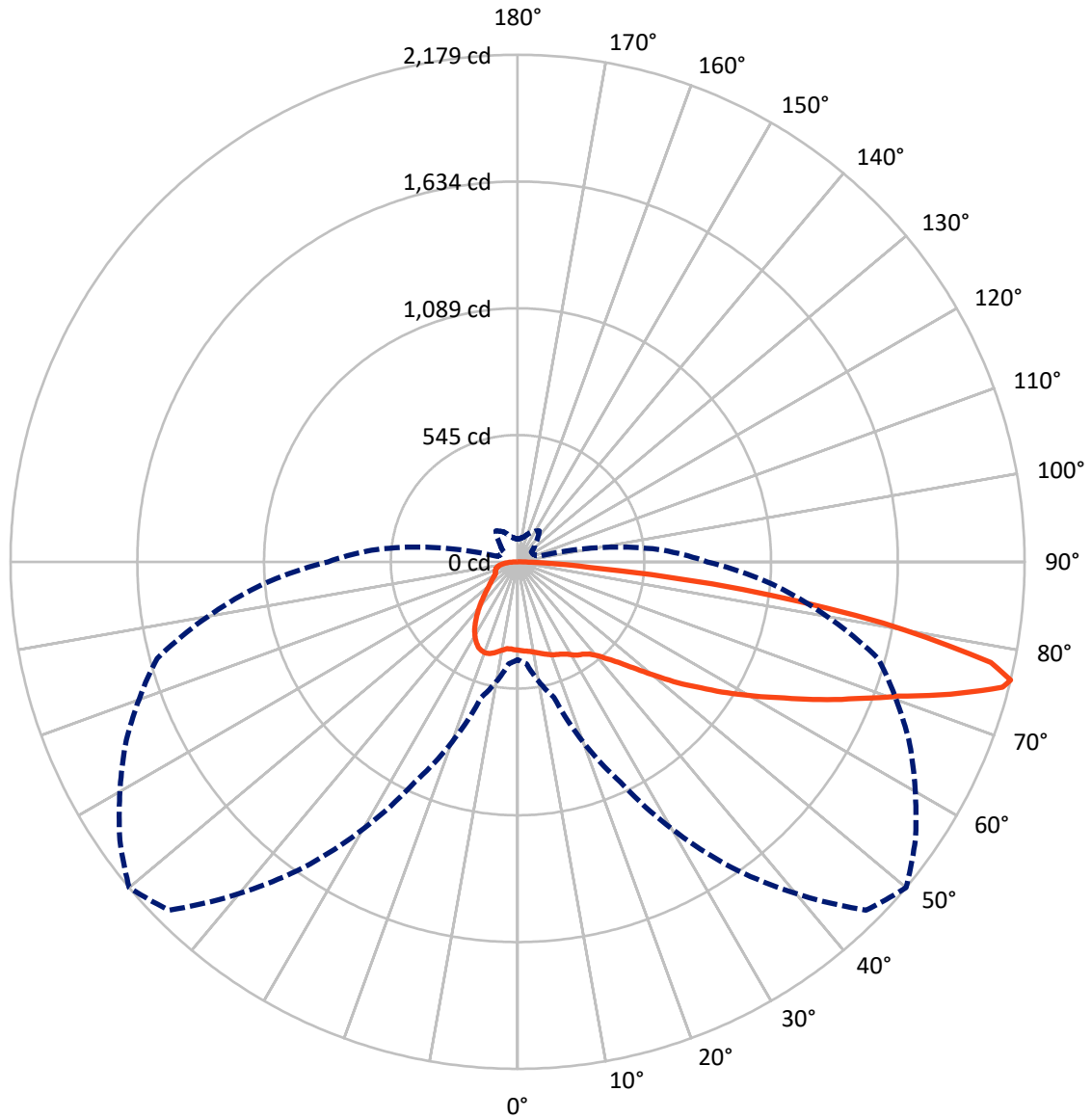
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.8 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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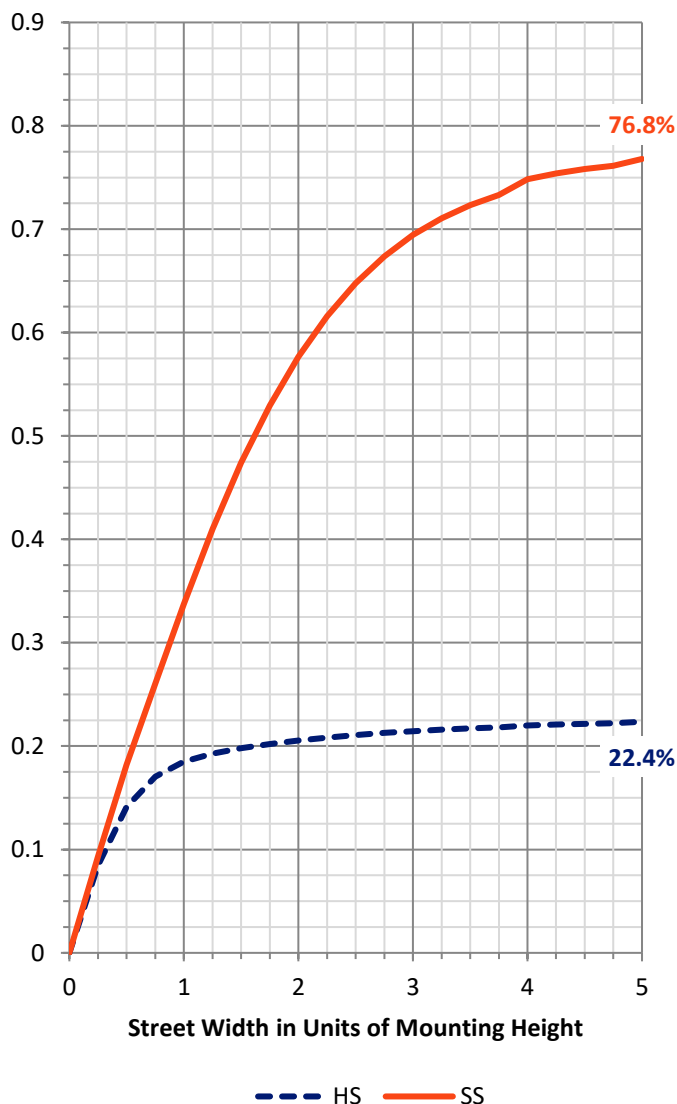
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	796.8	0.0	796.8
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	2686.2	0.0	2686.2
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	3483.0	0.0	3483.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.9	1.1
10°-20°	115.9	3.3
20°-30°	195.8	5.6
30°-40°	268.4	7.7
40°-50°	395.2	11.3
50°-60°	621.7	17.9
60°-70°	894.9	25.7
70°-80°	813.7	23.4
80°-90°	140.5	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°	3483.0	100.0
0°-180°	3483.0	100.0

**Coefficient of Utilization**

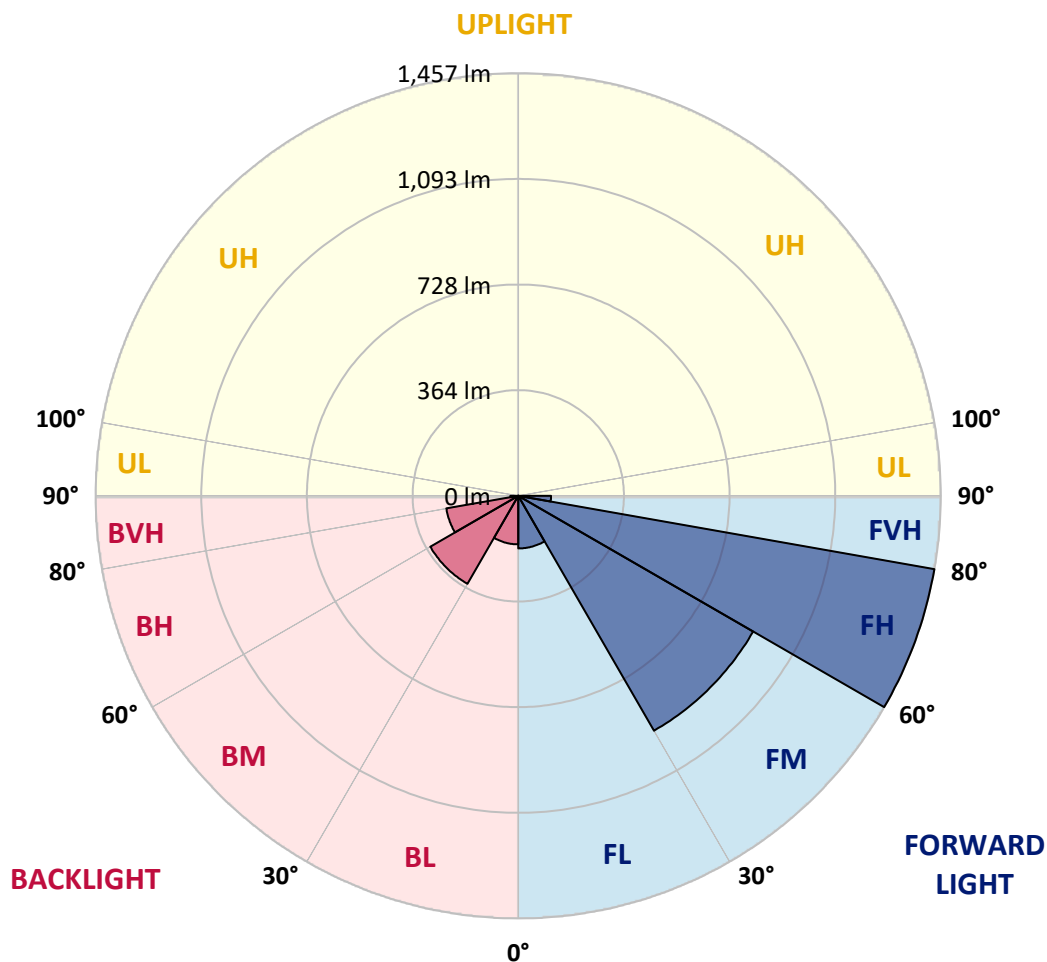


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	181.3	5.2			
FM (30°-60°)	935.1	26.8			
FH (60°-80°)	1456.7	41.8			G1/1800
FVH (80°-90°)	113.1	3.2			G2/225
BL (0°-30°)	167.3	4.8	B1/500		
BM (30°-60°)	350.2	10.1	B1/1000		
BH (60°-80°)	251.9	7.2	B1/500		G1/500
BVH (80°-90°)	27.4	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°	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6
2.5°	388.2	388.2	389.0	387.3	387.3	383.1	383.1	382.2	380.5	379.6	377.9
5°	402.7	402.7	400.1	395.8	393.3	388.2	385.6	383.9	380.5	376.2	372.0
7.5°	418.0	416.3	414.6	407.8	402.7	393.3	389.0	386.5	379.6	373.7	371.1
10°	434.2	431.7	427.4	418.9	411.2	400.1	395.0	391.6	383.9	378.8	372.8
12.5°	443.6	443.6	438.5	428.3	418.0	404.4	401.8	397.6	389.9	383.1	377.1
15°	453.0	453.9	448.7	436.8	424.9	414.6	410.4	407.8	399.3	389.0	381.3
17.5°	462.4	461.5	456.4	442.8	430.0	420.6	418.0	414.6	406.1	396.7	389.0
20°	469.2	467.5	465.8	448.7	435.9	430.0	426.6	424.0	415.5	405.2	395.0
22.5°	470.9	472.6	470.9	450.4	440.2	433.4	432.5	430.0	423.1	413.8	403.5
25°	471.8	472.6	475.2	455.6	446.2	441.1	439.4	437.7	432.5	424.9	411.2
27.5°	476.0	476.9	476.9	459.0	453.9	450.4	448.7	448.7	446.2	436.8	423.1
30°	476.9	477.7	479.5	467.5	465.8	463.2	464.1	463.2	459.0	448.7	433.4
32.5°	482.9	483.7	488.0	472.6	474.3	476.9	477.7	476.9	468.4	459.8	447.0
35°	502.5	501.6	505.0	485.4	483.7	484.6	487.1	486.3	482.9	475.2	466.7
37.5°	565.6	565.6	556.2	515.3	502.5	500.8	502.5	506.8	507.6	500.8	494.0
40°	676.5	670.6	665.4	576.7	535.8	525.5	530.6	533.2	540.0	540.0	540.0
42.5°	790.8	791.7	790.0	672.3	595.5	569.9	570.7	576.7	591.2	593.8	601.5
45°	892.4	898.3	911.1	783.2	683.4	626.2	620.2	626.2	646.7	663.7	683.4
47.5°	971.7	964.9	993.0	899.2	784.0	703.0	687.6	689.3	717.5	744.8	775.5
50°	1040.0	1041.7	1054.5	1017.8	911.1	790.0	769.5	766.1	806.2	835.2	887.2
52.5°	1116.7	1111.6	1130.4	1121.9	1034.8	896.6	864.2	854.0	897.5	938.4	994.7
55°	1153.4	1158.5	1196.9	1218.3	1151.7	992.2	956.3	959.8	1005.8	1049.3	1127.8
57.5°	1218.3	1223.4	1267.7	1312.1	1255.8	1093.7	1062.1	1062.1	1114.2	1162.8	1283.9
60°	1307.0	1307.8	1353.1	1429.8	1347.1	1191.8	1171.3	1170.5	1226.8	1283.1	1468.2
62.5°	1346.2	1356.5	1423.9	1523.7	1466.5	1312.1	1288.2	1295.0	1345.4	1411.1	1673.8
65°	1293.3	1315.5	1456.3	1586.8	1573.2	1437.5	1428.1	1437.5	1468.2	1539.0	1891.4
67.5°	1118.4	1148.3	1396.6	1629.5	1658.5	1582.5	1568.9	1567.2	1586.8	1666.1	2028.7
70°	1028.0	1045.9	1238.7	1645.7	1726.7	1729.3	1729.3	1718.2	1715.6	1773.6	2041.5
72.5°	846.3	865.1	1045.1	1555.2	1791.6	1925.5	1945.1	1904.2	1841.0	1829.1	1827.4
75°	603.2	616.8	772.1	1223.4	1708.8	2114.0	2153.3	2073.9	1898.2	1707.9	1332.6
76°	420.6	440.2	603.2	1045.1	1604.7	2117.4	2178.9	2086.7	1859.8	1603.9	1098.0
77.5°	213.3	220.1	348.9	702.1	1342.8	2020.2	2079.9	1976.7	1692.6	1295.9	697.0
80°	81.0	83.6	124.6	255.9	737.1	1568.9	1591.9	1452.9	1120.1	553.7	250.8
82.5°	42.7	44.4	70.0	126.3	302.9	862.5	973.4	810.5	439.4	166.4	73.4
85°	21.3	23.0	40.9	76.8	150.1	269.6	312.2	295.2	145.9	63.1	27.3
87.5°	8.5	10.2	20.5	34.1	60.6	52.9	58.9	75.9	46.9	29.9	9.4
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°	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6
2.5°	377.9	377.1	377.9	377.1	377.9	377.9	378.8	377.1	377.1	378.8	376.2
5°	372.0	371.1	372.0	373.7	374.5	376.2	379.6	378.8	380.5	382.2	383.1
7.5°	369.4	368.5	371.1	372.0	374.5	377.9	383.1	386.5	388.2	391.6	389.9
10°	372.0	372.0	375.4	377.9	382.2	386.5	390.7	394.1	398.4	401.0	400.1
12.5°	376.2	375.4	381.3	384.8	390.7	395.0	398.4	400.1	403.5	406.9	406.1
15°	380.5	381.3	389.9	396.7	403.5	405.2	406.1	404.4	406.1	407.8	407.8
17.5°	389.0	389.9	399.3	406.9	412.9	411.2	406.9	402.7	402.7	403.5	404.4
20°	395.8	397.6	408.6	415.5	418.9	412.1	405.2	400.1	397.6	398.4	397.6
22.5°	403.5	406.9	418.0	421.4	416.3	407.8	399.3	392.4	392.4	393.3	393.3
25°	412.9	414.6	422.3	420.6	411.2	398.4	391.6	389.0	388.2	389.0	389.9
27.5°	421.4	422.3	426.6	414.6	396.7	383.1	380.5	381.3	382.2	383.1	383.9
30°	432.5	434.2	430.0	406.1	378.8	363.4	363.4	368.5	370.3	372.8	372.0
32.5°	446.2	447.9	435.1	395.0	355.8	340.4	341.2	348.9	354.0	355.8	356.6
35°	469.2	465.8	438.5	379.6	331.0	312.2	313.1	322.5	329.3	331.9	330.2
37.5°	497.4	496.5	443.6	360.0	300.3	283.2	284.1	288.4	295.2	296.0	296.9
40°	544.3	537.5	452.2	334.4	269.6	253.4	251.7	254.2	253.4	255.1	255.9
42.5°	611.7	593.8	463.2	305.4	242.3	225.2	223.5	219.3	214.1	209.0	206.5
45°	691.0	662.9	476.9	275.6	214.1	198.8	194.5	189.4	179.2	168.1	164.7
47.5°	793.4	739.7	492.3	245.7	187.7	175.7	172.3	164.7	152.7	139.9	137.4
50°	898.3	830.1	507.6	221.0	166.4	159.5	156.1	148.4	133.1	121.1	118.6
52.5°	1020.3	919.7	523.8	198.8	147.6	147.6	145.0	133.1	118.6	107.5	105.8
55°	1161.1	1011.8	549.4	177.4	133.9	137.4	133.9	122.0	108.3	100.7	99.8
57.5°	1329.2	1128.7	581.8	154.4	122.0	124.6	124.6	116.0	106.6	101.5	100.7
60°	1498.1	1247.3	602.3	137.4	112.6	115.2	120.3	116.0	110.1	107.5	106.6
62.5°	1660.2	1368.4	567.3	122.8	103.2	110.9	123.7	124.6	118.6	119.4	119.4
65°	1781.3	1460.5	459.0	110.1	97.3	113.5	133.9	134.8	124.6	122.0	121.1
67.5°	1823.1	1486.1	308.8	101.5	93.8	115.2	145.9	142.5	124.6	119.4	116.9
70°	1743.8	1392.3	200.5	93.8	88.7	113.5	155.3	146.7	123.7	116.0	112.6
72.5°	1462.3	1187.5	133.9	87.0	83.6	111.8	161.2	146.7	121.1	110.1	106.6
75°	1015.2	811.3	99.8	78.5	75.9	109.2	162.9	144.2	115.2	103.2	100.7
76°	814.7	608.3	90.4	75.1	72.5	107.5	162.1	141.6	110.9	99.8	97.3
77.5°	514.4	349.8	75.9	69.1	67.4	104.1	158.7	135.6	104.9	93.8	91.3
80°	180.0	128.0	58.0	56.3	57.2	96.4	149.3	123.7	93.0	82.8	79.3
82.5°	71.7	58.9	43.5	43.5	45.2	82.8	134.8	109.2	81.0	68.2	63.1
85°	28.2	25.6	30.7	30.7	32.4	67.4	112.6	85.3	55.5	42.7	40.9
87.5°	8.5	11.9	13.6	14.5	15.4	34.1	64.0	37.5	24.7	17.9	14.5
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)