

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: P594446

Luminaire Tested: **ISS-PA1A-727-U-T2U**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594446  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISS-PA1A-727-U-T2U  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 2700K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3547 lumens  
Efficiency: N/A  
Efficacy: 122.7 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

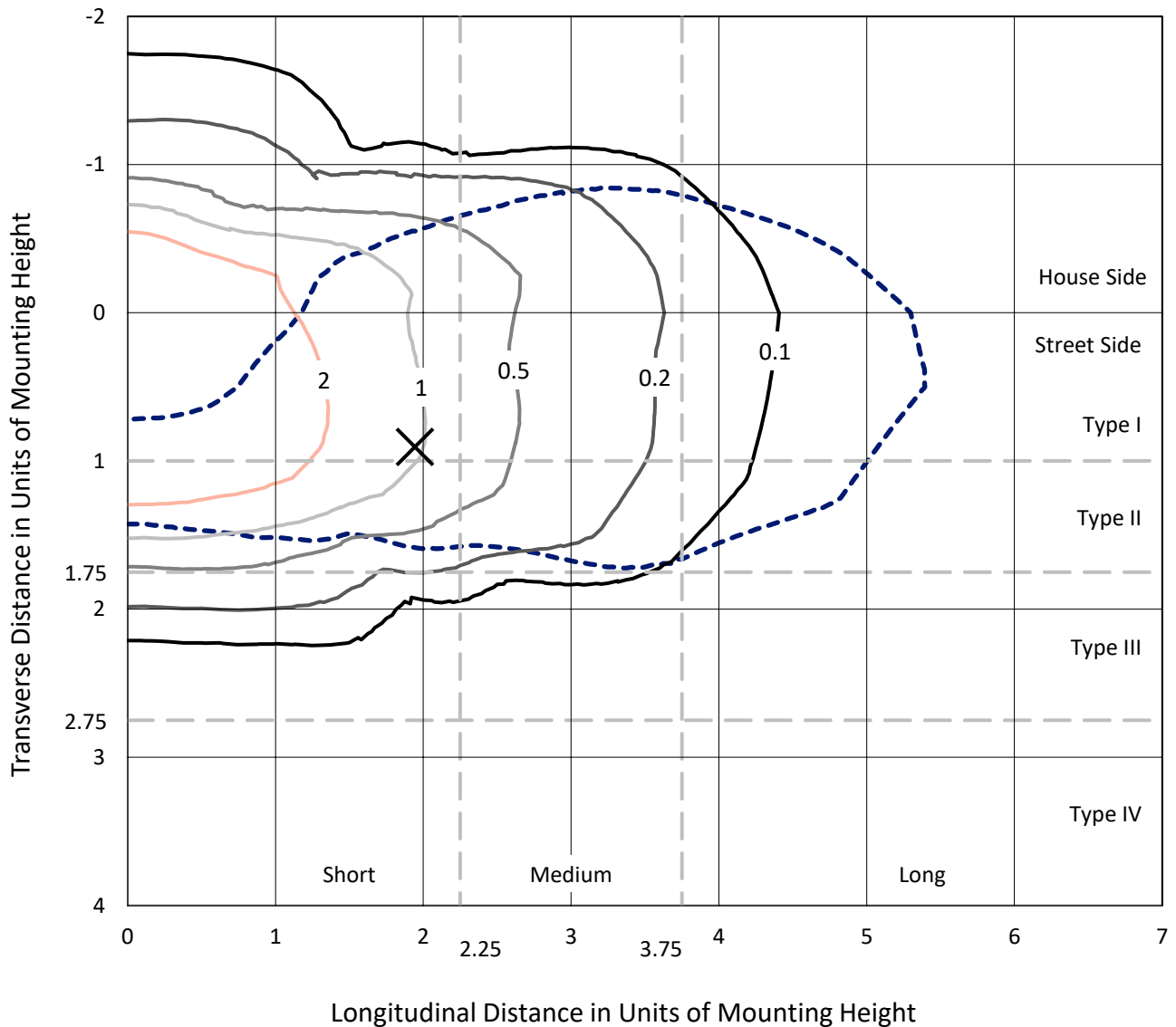
Input Watts (W): 28.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

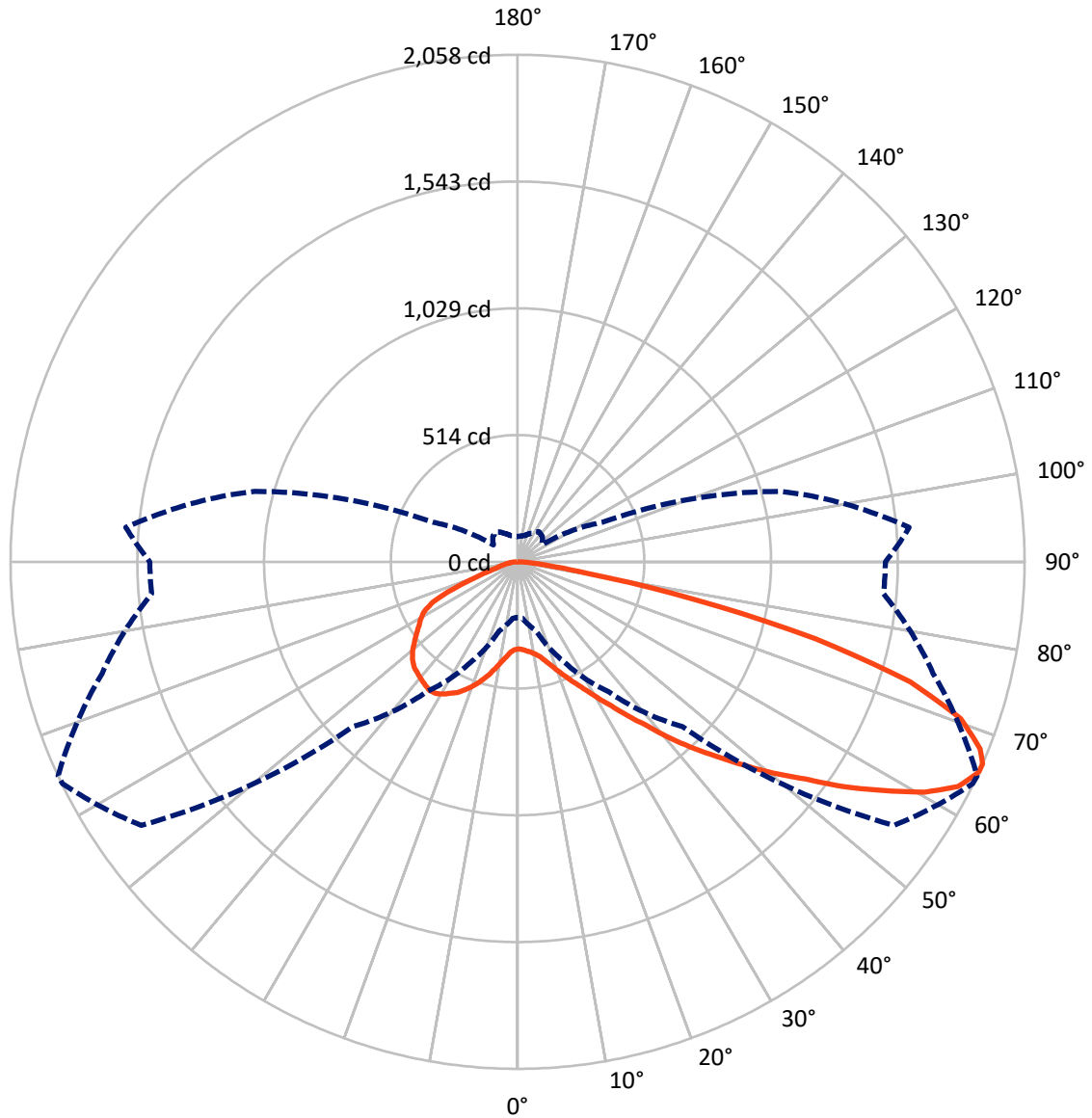
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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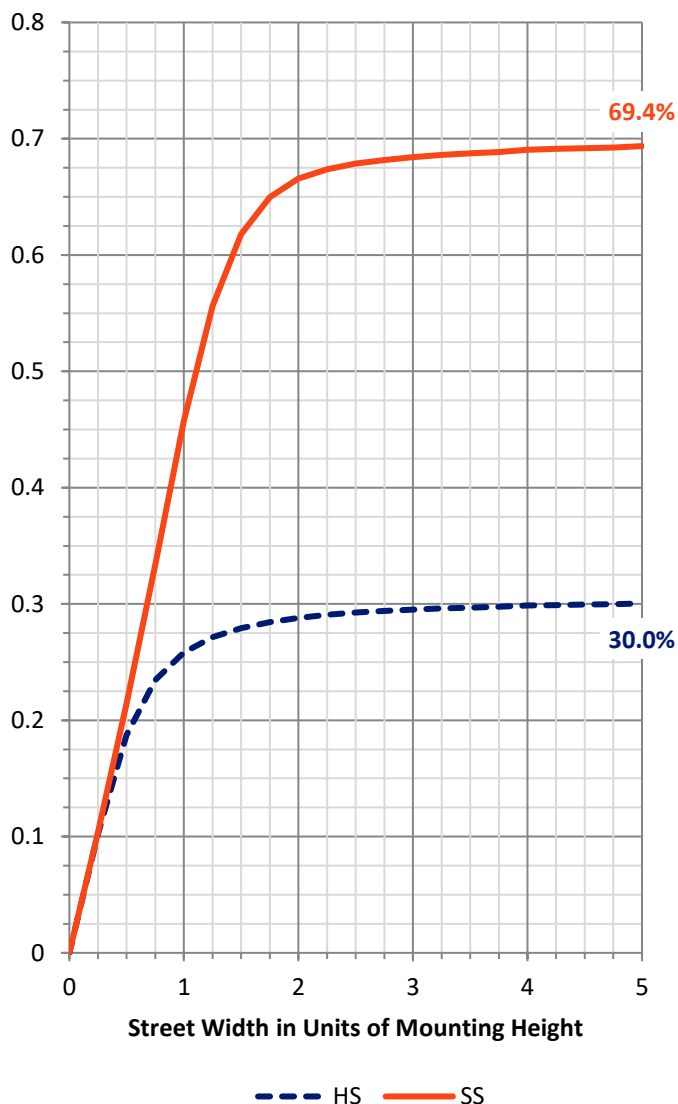
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1077.0	0.0	1077.0
	% Fixture	30.4	0.0	30.4
<b>Street Side</b>	Lumens	2470.0	0.0	2470.0
	% Fixture	69.6	0.0	69.6
<b>Total</b>	Lumens	3547.0	0.0	3547.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.1	1.0
10°-20°	125.7	3.5
20°-30°	246.2	6.9
30°-40°	402.3	11.3
40°-50°	638.5	18.0
50°-60°	821.3	23.2
60°-70°	740.6	20.9
70°-80°	459.4	13.0
80°-90°	77.0	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°	3547.0	100.0
0°-180°	3547.0	100.0

**Coefficient of Utilization**

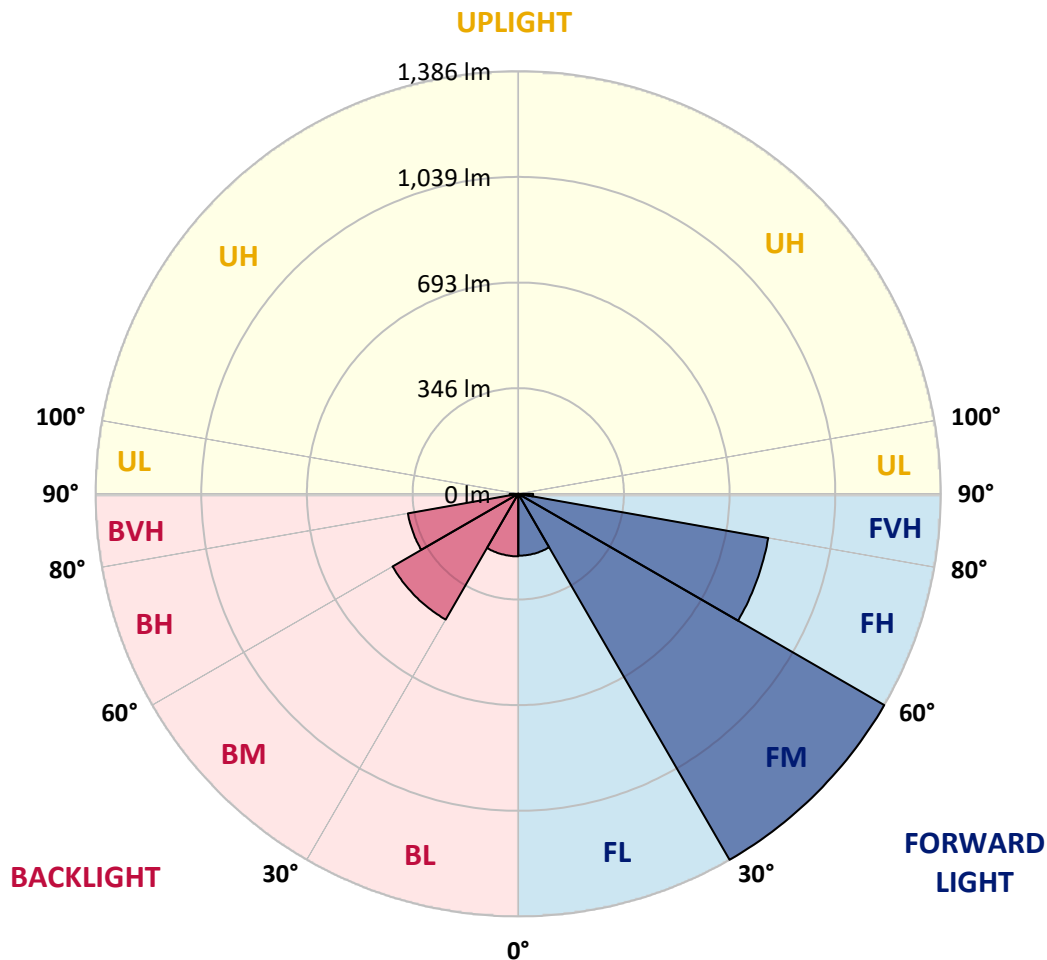


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	202.8	5.7			
FM (30°-60°)	1386.0	39.1			
FH (60°-80°)	832.5	23.5			G1/1800
FVH (80°-90°)	48.7	1.4			G1/100
BL (0°-30°)	205.1	5.8	B1/500		
BM (30°-60°)	476.1	13.4	B1/1000		
BH (60°-80°)	367.5	10.4	B1/500		G1/500
BVH (80°-90°)	28.3	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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	353.6	353.6	353.6	353.6	353.6	353.6	353.6	353.6	353.6	353.6	353.6
2.5°	354.4	355.3	356.1	354.4	356.1	357.0	355.3	355.3	356.1	354.4	354.4
5°	351.8	352.7	354.4	355.3	358.7	360.4	361.3	361.3	362.2	361.3	362.2
7.5°	344.9	344.9	348.4	350.1	355.3	361.3	364.7	369.9	369.9	370.8	373.3
10°	351.8	351.8	354.4	357.0	361.3	366.5	371.6	377.6	379.4	385.4	388.8
12.5°	362.2	363.9	367.3	370.8	375.9	381.9	386.2	392.3	393.1	399.1	406.0
15°	379.4	381.1	382.8	387.1	394.0	401.7	409.5	413.8	415.5	418.9	424.1
17.5°	405.2	406.9	407.7	410.3	415.5	425.8	437.0	440.4	442.2	442.2	446.5
20°	449.0	448.2	446.5	441.3	441.3	450.8	466.2	472.3	474.0	470.5	468.0
22.5°	499.8	498.9	492.0	486.0	481.7	483.4	498.9	509.3	508.4	501.5	491.2
25°	566.0	567.7	556.6	541.1	528.2	524.7	534.2	544.5	546.2	533.3	516.1
27.5°	645.2	642.6	636.6	611.6	586.7	571.2	576.3	587.5	588.4	574.6	547.1
30°	738.1	733.8	718.3	692.5	653.8	632.3	628.0	637.4	640.0	616.8	577.2
32.5°	841.3	837.0	817.2	777.6	735.5	699.4	685.6	698.5	696.8	670.1	615.1
35°	966.0	965.2	929.0	880.0	826.7	778.5	759.6	759.6	764.7	725.2	663.2
37.5°	1132.9	1139.8	1086.5	1009.9	935.1	870.5	838.7	837.0	837.9	794.8	717.4
40°	1283.5	1280.9	1249.9	1178.5	1069.3	986.7	939.4	929.0	931.6	876.6	788.0
42.5°	1370.3	1372.9	1365.2	1334.2	1238.7	1134.6	1053.8	1026.2	1027.1	958.3	855.1
45°	1424.5	1427.1	1426.2	1441.7	1403.9	1305.8	1190.5	1126.9	1123.5	1051.2	934.2
47.5°	1455.5	1457.2	1468.4	1500.2	1531.2	1508.8	1341.9	1238.7	1231.8	1138.1	1013.3
50°	1421.1	1421.9	1466.7	1542.4	1618.1	1686.0	1496.8	1349.7	1348.0	1234.4	1090.8
52.5°	1240.4	1255.9	1354.9	1513.1	1682.6	1811.6	1675.7	1480.4	1465.8	1325.6	1168.2
55°	1012.5	1019.4	1132.9	1334.2	1670.6	1889.0	1810.8	1621.5	1611.2	1427.1	1243.9
57.5°	790.5	797.4	932.5	1100.2	1486.5	1884.7	1906.3	1773.8	1750.6	1515.7	1319.6
60°	510.1	531.6	688.2	894.6	1203.5	1754.0	1954.4	1920.0	1898.5	1603.5	1384.1
62.5°	346.7	350.1	448.2	663.2	900.7	1425.4	1951.0	2010.3	2006.9	1691.2	1448.6
65°	225.4	230.5	289.9	449.0	644.3	946.2	1865.0	2054.2	2057.7	1745.4	1490.8
66°	191.0	194.4	240.0	377.6	564.3	750.1	1789.3	2050.8	2057.7	1770.3	1503.7
67.5°	166.0	168.6	191.8	278.7	461.1	539.4	1592.3	2005.2	2025.0	1793.6	1520.0
70°	142.8	146.2	167.7	190.1	329.5	314.8	1008.2	1888.2	1908.0	1804.7	1530.3
72.5°	117.9	120.4	141.9	172.0	239.1	211.6	444.7	1616.4	1666.3	1763.5	1514.0
75°	92.9	94.6	114.4	143.7	183.2	165.2	193.6	1185.4	1248.2	1554.4	1450.3
77.5°	72.3	73.1	88.6	111.8	167.7	128.2	119.6	577.2	730.3	1200.9	1277.4
80°	49.9	51.6	65.4	84.3	123.0	101.5	80.0	225.4	286.5	797.4	968.6
82.5°	32.7	33.5	44.7	63.7	81.7	97.2	52.5	109.2	120.4	367.3	419.8
85°	22.4	22.4	31.8	39.6	55.9	64.5	34.4	57.6	62.8	139.4	50.8
87.5°	11.2	11.2	15.5	20.6	26.7	24.9	20.6	20.6	20.6	45.6	14.6
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°	353.6	353.6	353.6	353.6	353.6	353.6	353.6	353.6	353.6	353.6	353.6
2.5°	355.3	355.3	356.1	357.0	357.9	357.9	358.7	358.7	357.9	358.7	359.6
5°	363.0	363.9	365.6	368.2	372.5	376.8	381.1	383.7	386.2	387.1	385.4
7.5°	375.1	376.8	382.8	389.7	396.6	406.9	412.9	416.3	418.1	419.8	418.1
10°	390.5	394.0	402.6	414.6	426.7	439.6	446.5	451.6	452.5	454.2	452.5
12.5°	408.6	414.6	427.5	444.7	459.4	472.3	477.4	474.0	466.2	462.8	461.9
15°	430.1	436.1	454.2	475.7	492.9	498.9	491.2	480.0	471.4	470.5	469.7
17.5°	449.0	457.6	482.6	505.0	521.3	515.3	494.6	487.7	485.2	488.6	487.7
20°	473.1	480.0	505.0	532.5	541.1	517.9	503.2	498.9	496.3	496.3	494.6
22.5°	492.9	498.1	528.2	558.3	553.1	519.6	509.3	500.6	492.0	491.2	488.6
25°	516.1	517.9	549.7	582.4	554.8	521.3	503.2	488.6	480.0	477.4	478.3
27.5°	537.6	541.9	569.5	598.7	550.5	511.8	482.6	463.7	450.8	449.9	449.9
30°	565.2	565.2	590.1	616.8	541.1	487.7	449.0	421.5	411.2	410.3	408.6
32.5°	596.1	591.0	615.1	629.7	520.4	455.1	403.4	372.5	356.1	352.7	350.1
35°	639.1	628.0	645.2	632.3	499.8	408.6	345.8	310.5	298.5	293.3	293.3
37.5°	689.0	672.7	690.8	624.5	468.0	354.4	285.6	258.9	246.0	238.3	240.9
40°	747.5	726.9	737.2	615.9	433.6	294.2	235.7	219.4	203.9	193.6	193.6
42.5°	816.4	781.9	789.7	607.3	384.5	241.7	203.9	192.7	180.6	170.3	172.9
45°	882.6	849.0	841.3	598.7	332.9	206.5	191.0	183.2	172.0	160.0	160.0
47.5°	959.1	916.1	886.9	583.2	282.2	195.3	194.4	183.2	161.7	144.5	142.8
50°	1031.4	991.8	928.2	560.0	253.8	204.7	193.6	166.9	146.2	135.1	134.2
52.5°	1108.0	1066.7	961.7	531.6	239.1	200.4	178.1	153.1	137.6	126.5	123.9
55°	1183.7	1162.2	991.8	504.1	215.9	186.7	165.2	144.5	128.2	117.9	116.1
57.5°	1269.7	1261.1	1017.6	476.6	179.8	169.5	155.7	138.5	123.0	115.3	114.4
60°	1344.5	1374.6	1048.6	455.9	153.1	156.6	151.4	137.6	126.5	117.9	117.9
62.5°	1423.7	1483.9	1076.1	429.3	133.3	148.8	152.3	136.8	122.2	114.4	114.4
65°	1492.5	1595.7	1104.5	380.2	119.6	142.8	149.7	127.3	110.1	104.1	102.4
66°	1521.7	1627.5	1113.1	350.1	114.4	138.5	145.4	122.2	104.9	99.8	98.9
67.5°	1556.1	1677.4	1123.5	285.6	106.7	129.0	135.9	114.4	96.3	92.9	91.2
70°	1604.3	1687.8	1117.4	186.7	92.9	111.0	121.3	102.4	86.0	83.4	80.9
72.5°	1609.5	1617.2	1057.2	117.9	80.9	95.5	106.7	92.0	75.7	73.1	71.4
75°	1524.3	1433.1	894.6	84.3	71.4	84.3	93.8	80.0	62.8	59.4	57.6
77.5°	1301.5	1137.2	643.4	62.8	61.9	72.3	78.3	69.7	52.5	49.9	49.0
80°	913.6	771.6	322.6	47.3	49.0	60.2	65.4	58.5	43.9	40.4	38.7
82.5°	369.9	327.7	111.0	35.3	37.0	45.6	55.9	48.2	33.5	29.2	25.8
85°	42.2	71.4	48.2	24.1	24.9	31.0	37.8	29.2	19.8	16.3	13.8
87.5°	8.6	15.5	17.2	9.5	8.6	12.0	17.2	10.3	6.9	2.6	3.4
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)