

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: P594602

Luminaire Tested: **ISS-PA1B-830-U-T4W-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594602  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISS-PA1B-830-U-T4W-HSS  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 80 CRI, 3000K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3143 lumens  
Efficiency: N/A  
Efficacy: 86.3 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G1

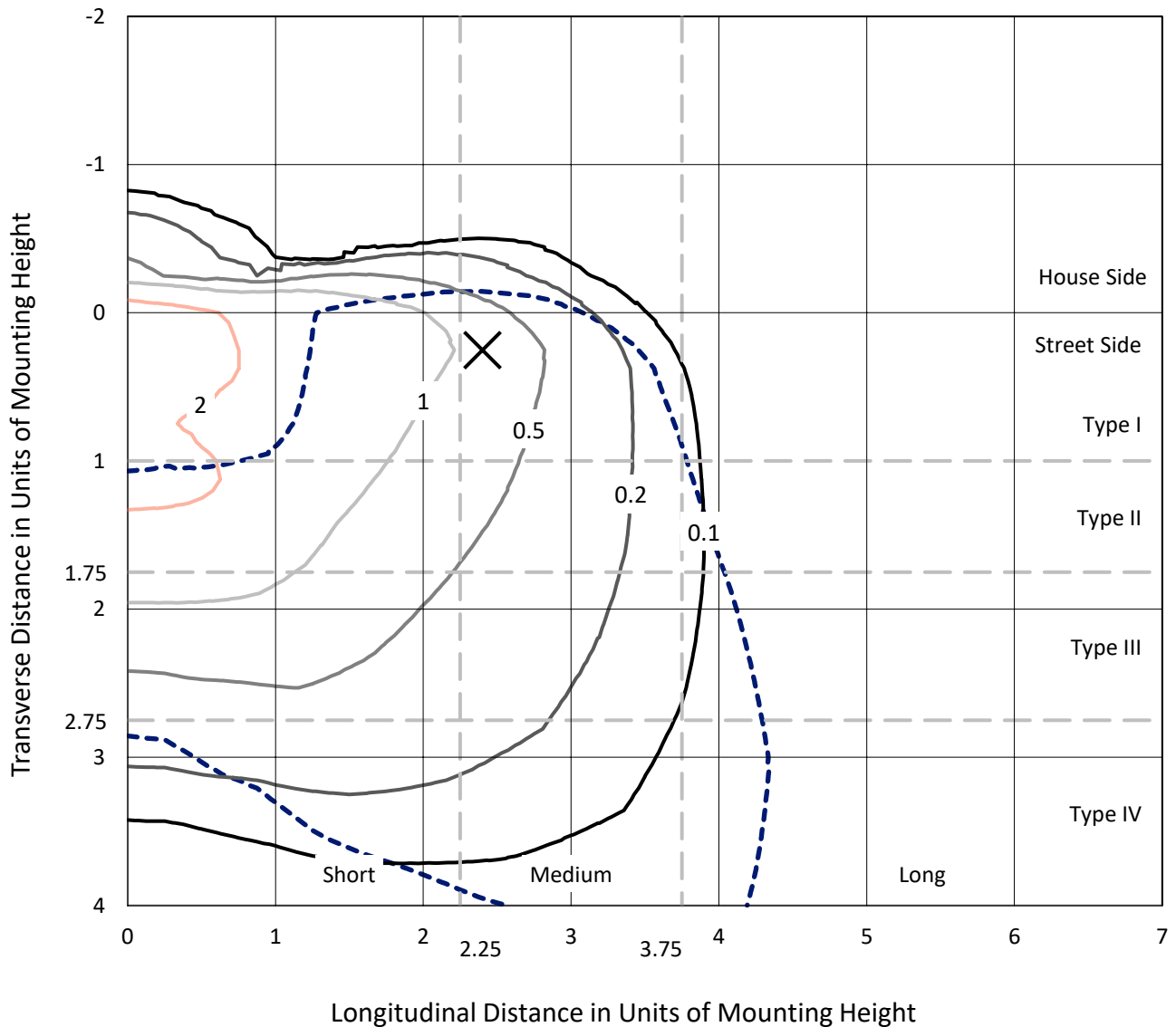
Input Watts (W): 36.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

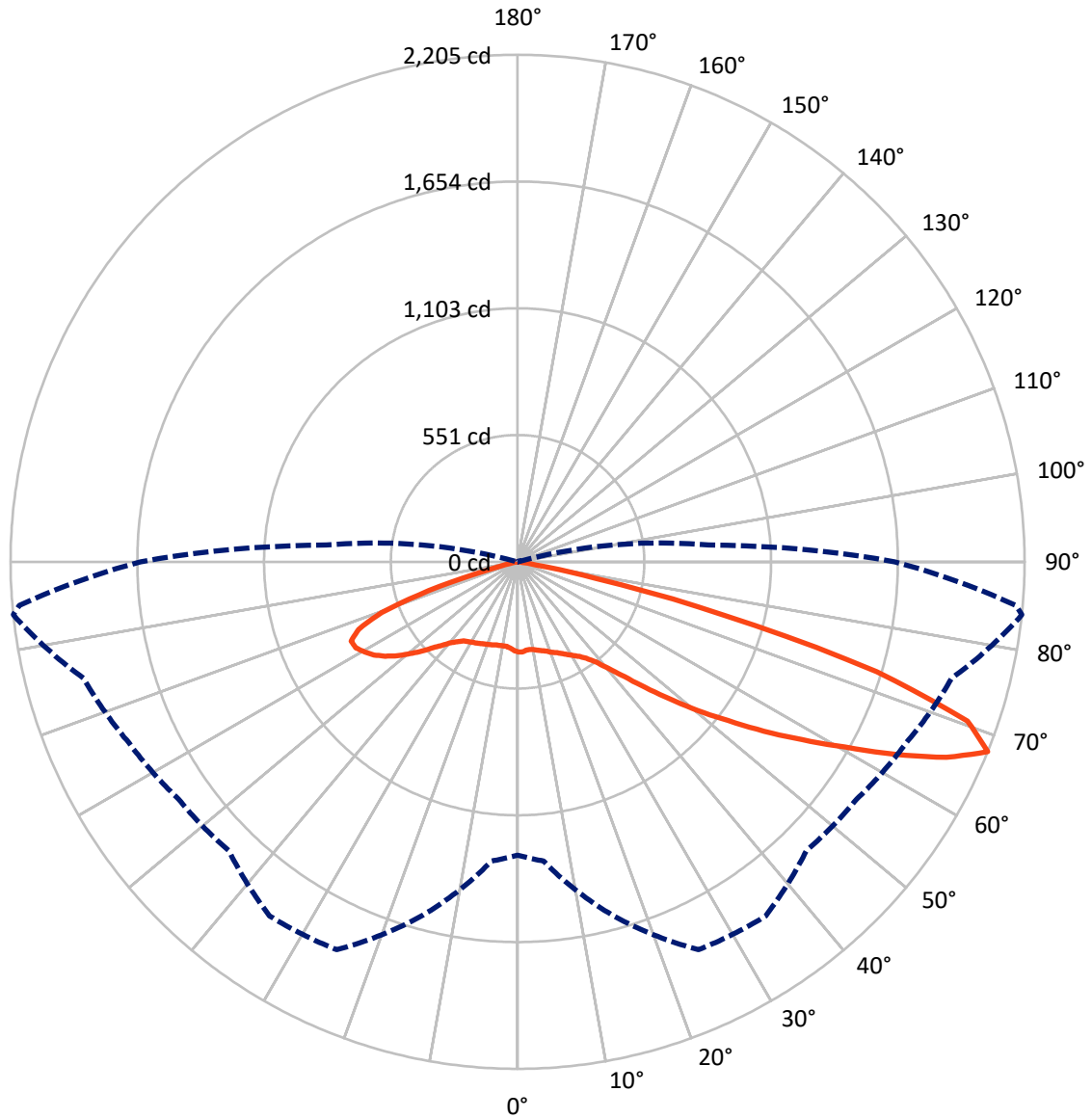
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.2 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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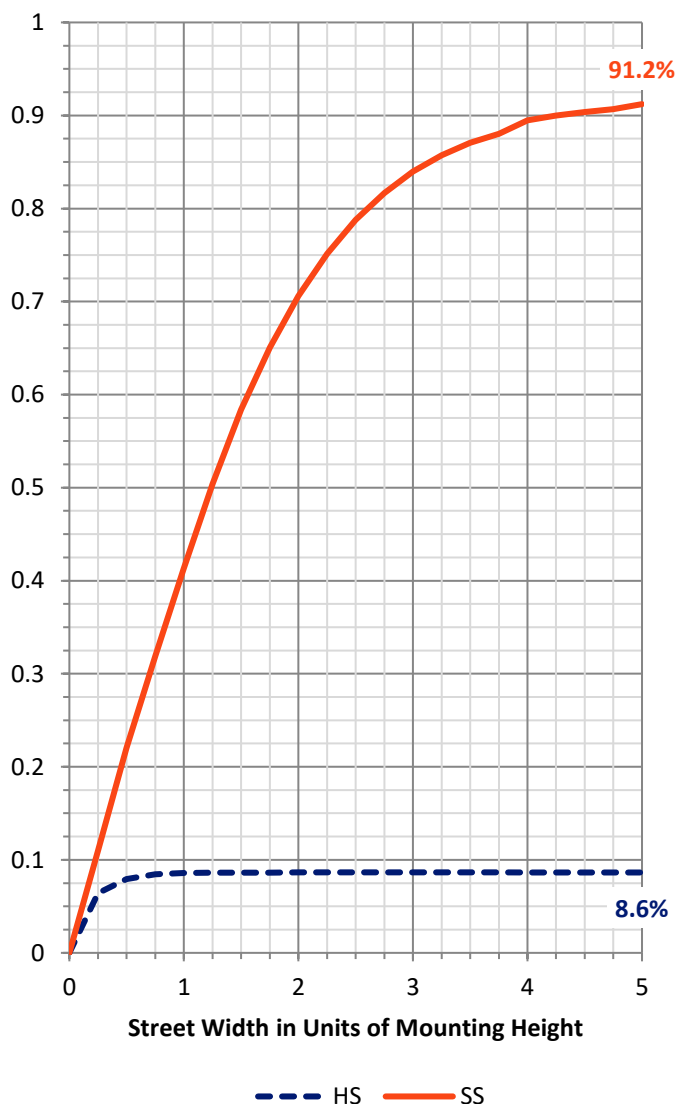
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	273.7	0.0	273.7
	% Fixture	8.7	0.0	8.7
<b>Street Side</b>	Lumens	2869.4	0.0	2869.4
	% Fixture	91.3	0.0	91.3
<b>Total</b>	Lumens	3143.0	0.0	3143.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.1	1.1
10°-20°	91.8	2.9
20°-30°	147.1	4.7
30°-40°	211.7	6.7
40°-50°	363.3	11.6
50°-60°	634.8	20.2
60°-70°	909.0	28.9
70°-80°	683.2	21.7
80°-90°	67.1	2.1
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°	3143.0	100.0
0°-180°	3143.0	100.0

**Coefficient of Utilization**

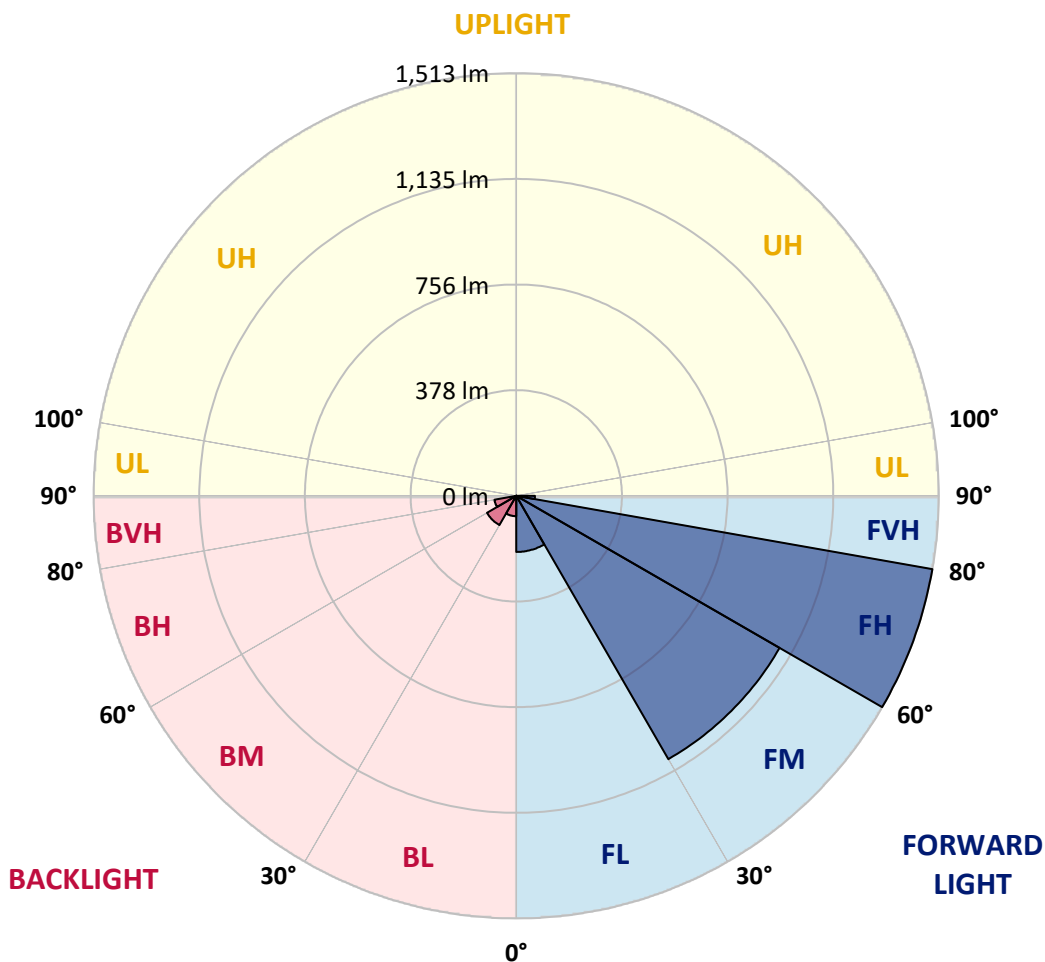


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	200.9	6.4			
FM (30°-60°)	1088.7	34.6			
FH (60°-80°)	1512.9	48.1			G1/1800
FVH (80°-90°)	66.8	2.1			G1/100
BL (0°-30°)	73.1	2.3	B0/110		
BM (30°-60°)	121.0	3.9	B0/220		
BH (60°-80°)	79.3	2.5	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	391.6	391.6	391.6	391.6	391.6	391.6	391.6	391.6	391.6	391.6	391.6
2.5°	413.9	416.0	417.0	411.7	411.7	407.5	401.1	399.0	395.8	392.6	391.6
5°	435.1	438.3	437.2	430.8	427.7	419.2	410.7	402.2	393.7	386.3	386.3
7.5°	459.5	460.6	457.4	446.8	440.4	428.7	416.0	406.4	395.8	385.2	383.1
10°	480.7	479.7	475.4	464.8	453.1	438.3	424.5	413.9	401.1	388.4	387.3
12.5°	495.6	496.6	491.3	476.5	464.8	447.8	434.0	423.4	408.6	394.8	391.6
15°	508.3	511.5	505.1	490.3	473.3	458.4	447.8	434.0	417.0	401.1	399.0
17.5°	520.0	521.0	515.7	498.8	482.8	470.1	458.4	445.7	428.7	408.6	406.4
20°	526.4	529.5	526.4	505.1	490.3	480.7	471.2	458.4	439.3	420.2	418.1
22.5°	530.6	533.8	532.7	509.4	496.6	489.2	480.7	469.0	451.0	428.7	426.6
25°	532.7	534.8	537.0	513.6	503.0	499.8	492.4	481.8	464.8	441.5	439.3
27.5°	535.9	538.0	540.1	518.9	514.7	511.5	509.4	500.9	480.7	456.3	453.1
30°	541.2	544.4	546.5	528.5	528.5	531.7	531.7	520.0	497.7	472.2	470.1
32.5°	547.6	548.6	552.9	538.0	543.3	550.8	548.6	537.0	513.6	490.3	487.1
35°	564.6	564.6	572.0	552.9	559.2	565.6	567.7	559.2	538.0	514.7	513.6
37.5°	605.9	605.9	612.3	581.5	580.5	586.8	594.3	594.3	573.0	551.8	549.7
40°	699.3	699.3	699.3	628.2	616.6	624.0	635.7	642.0	624.0	609.1	609.1
42.5°	855.3	856.4	840.5	714.2	664.3	677.0	689.8	703.6	694.0	683.4	681.3
45°	1016.6	1011.3	1009.2	840.5	749.2	742.8	758.8	782.1	785.3	778.9	783.2
47.5°	1127.0	1132.3	1135.5	997.5	868.1	824.5	839.4	872.3	891.4	890.3	896.7
50°	1234.2	1237.4	1240.5	1170.5	1025.1	927.5	937.0	981.6	1008.1	1016.6	1020.9
52.5°	1327.6	1319.1	1332.9	1323.3	1191.7	1045.3	1045.3	1096.2	1144.0	1147.1	1146.1
55°	1355.1	1360.4	1401.8	1430.5	1362.6	1189.6	1168.4	1222.5	1273.4	1300.0	1300.0
57.5°	1416.7	1422.0	1471.9	1536.6	1486.7	1331.8	1300.0	1353.0	1408.2	1459.1	1466.6
60°	1497.3	1498.4	1551.5	1650.2	1581.2	1460.2	1433.7	1494.2	1549.3	1636.4	1660.8
62.5°	1540.9	1545.1	1618.3	1747.8	1700.0	1572.7	1566.3	1621.5	1692.6	1845.4	1867.7
65°	1474.0	1501.6	1660.8	1806.1	1796.6	1677.7	1700.0	1744.6	1826.3	2050.2	2071.4
67.5°	1275.6	1306.3	1590.7	1861.3	1880.4	1776.4	1799.8	1864.5	1954.7	2205.2	2175.4
70°	1174.7	1200.2	1420.9	1892.1	1950.5	1886.8	1897.4	1957.9	1984.4	2075.7	2043.9
72.5°	890.3	916.9	1202.3	1787.0	2011.0	2002.5	1975.9	1926.1	1769.0	1633.2	1555.7
75°	393.7	424.5	800.1	1396.5	1861.3	2068.3	1928.2	1649.1	1270.2	927.5	859.6
77.5°	174.0	192.1	309.9	775.7	1398.7	1790.2	1524.9	1099.4	637.8	344.9	320.5
80°	56.2	58.4	97.6	271.7	715.2	1185.4	933.8	528.5	196.3	80.7	75.3
82.5°	22.3	24.4	46.7	114.6	296.1	471.2	458.4	191.0	57.3	21.2	21.2
85°	6.4	7.4	23.3	60.5	105.1	132.6	162.4	63.7	30.8	6.4	6.4
87.5°	2.1	2.1	8.5	19.1	20.2	13.8	30.8	24.4	19.1	2.1	2.1
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°	391.6	391.6	391.6	391.6	391.6	391.6	391.6	391.6	391.6	391.6	391.6
2.5°	389.5	387.3	382.0	377.8	375.7	372.5	368.2	366.1	366.1	365.1	361.9
5°	382.0	378.8	369.3	362.9	357.6	345.9	337.5	326.8	316.2	313.1	316.2
7.5°	378.8	372.5	359.7	347.0	324.7	294.0	273.8	251.5	244.1	234.5	235.6
10°	379.9	372.5	354.4	325.8	282.3	236.6	204.8	175.1	160.2	152.8	153.9
12.5°	383.1	374.6	349.1	297.1	234.5	179.3	130.5	107.2	102.9	102.9	102.9
15°	389.5	376.7	340.6	263.2	183.6	118.9	92.3	90.2	93.4	96.6	97.6
17.5°	395.8	383.1	327.9	228.2	133.7	89.1	86.0	86.0	89.1	92.3	93.4
20°	403.3	389.5	309.9	191.0	95.5	83.8	82.8	81.7	83.8	87.0	88.1
22.5°	414.9	395.8	288.6	147.5	82.8	80.7	78.5	77.5	78.5	81.7	82.8
25°	425.5	404.3	266.4	109.3	77.5	75.3	74.3	73.2	73.2	75.3	76.4
27.5°	438.3	413.9	242.0	81.7	71.1	70.0	69.0	67.9	66.9	69.0	70.0
30°	454.2	422.4	215.4	69.0	64.7	63.7	62.6	61.5	60.5	61.5	62.6
32.5°	474.4	434.0	184.6	62.6	59.4	56.2	55.2	55.2	54.1	54.1	55.2
35°	500.9	446.8	151.8	58.4	54.1	50.9	47.8	46.7	46.7	46.7	47.8
37.5°	540.1	470.1	119.9	54.1	49.9	44.6	41.4	38.2	38.2	38.2	38.2
40°	594.3	495.6	93.4	50.9	46.7	39.3	35.0	30.8	28.7	27.6	28.7
42.5°	678.1	533.8	72.2	46.7	44.6	35.0	28.7	23.3	19.1	18.0	19.1
45°	770.4	575.2	57.3	43.5	40.3	29.7	22.3	15.9	11.7	10.6	11.7
47.5°	887.2	627.2	48.8	39.3	35.0	24.4	15.9	8.5	5.3	6.4	6.4
50°	999.6	678.1	44.6	36.1	30.8	20.2	9.6	4.2	2.1	3.2	3.2
52.5°	1123.8	732.2	41.4	31.8	26.5	14.9	5.3	1.1	0.0	1.1	1.1
55°	1249.0	781.0	38.2	28.7	21.2	10.6	2.1	0.0	0.0	0.0	1.1
57.5°	1384.9	822.4	35.0	24.4	15.9	6.4	1.1	0.0	0.0	0.0	0.0
60°	1498.4	854.3	31.8	21.2	10.6	3.2	0.0	0.0	0.0	0.0	0.0
62.5°	1602.4	882.9	24.4	15.9	6.4	2.1	0.0	0.0	0.0	0.0	0.0
65°	1671.4	889.3	17.0	10.6	4.2	1.1	0.0	0.0	0.0	0.0	0.0
67.5°	1640.6	834.1	10.6	7.4	2.1	1.1	0.0	0.0	0.0	0.0	0.0
70°	1442.2	700.4	7.4	4.2	1.1	1.1	0.0	0.0	0.0	0.0	0.0
72.5°	1009.2	452.1	6.4	3.2	1.1	1.1	0.0	0.0	0.0	0.0	0.0
75°	532.7	163.4	4.2	2.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
77.5°	188.9	36.1	2.1	1.1	0.0	1.1	0.0	0.0	0.0	0.0	0.0
80°	41.4	7.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	11.7	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)