

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: P594598

Luminaire Tested: **ISS-PA1B-830-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)
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-T2U-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3062 lumens
Efficiency: N/A
Efficacy: 84.1 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

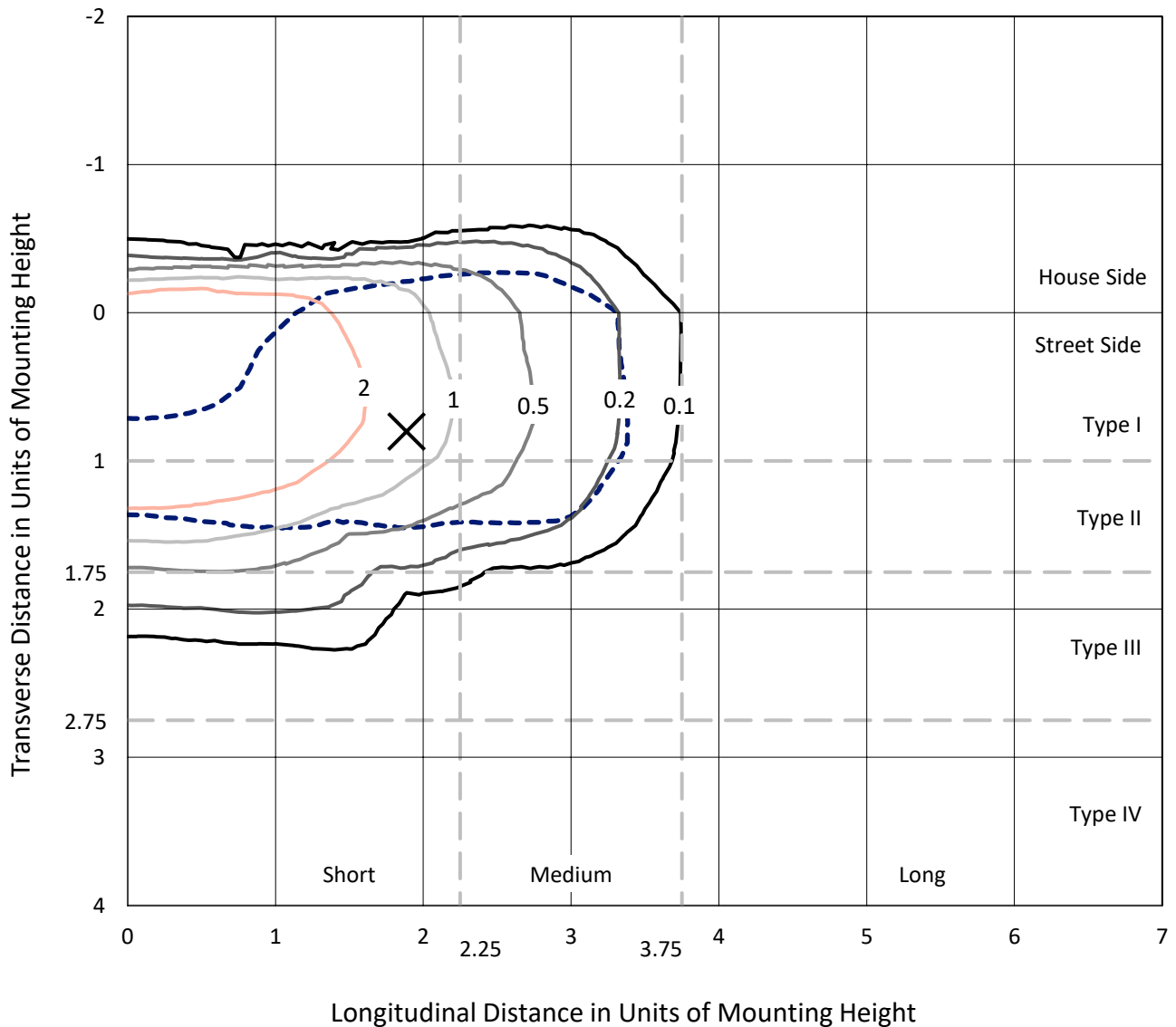
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

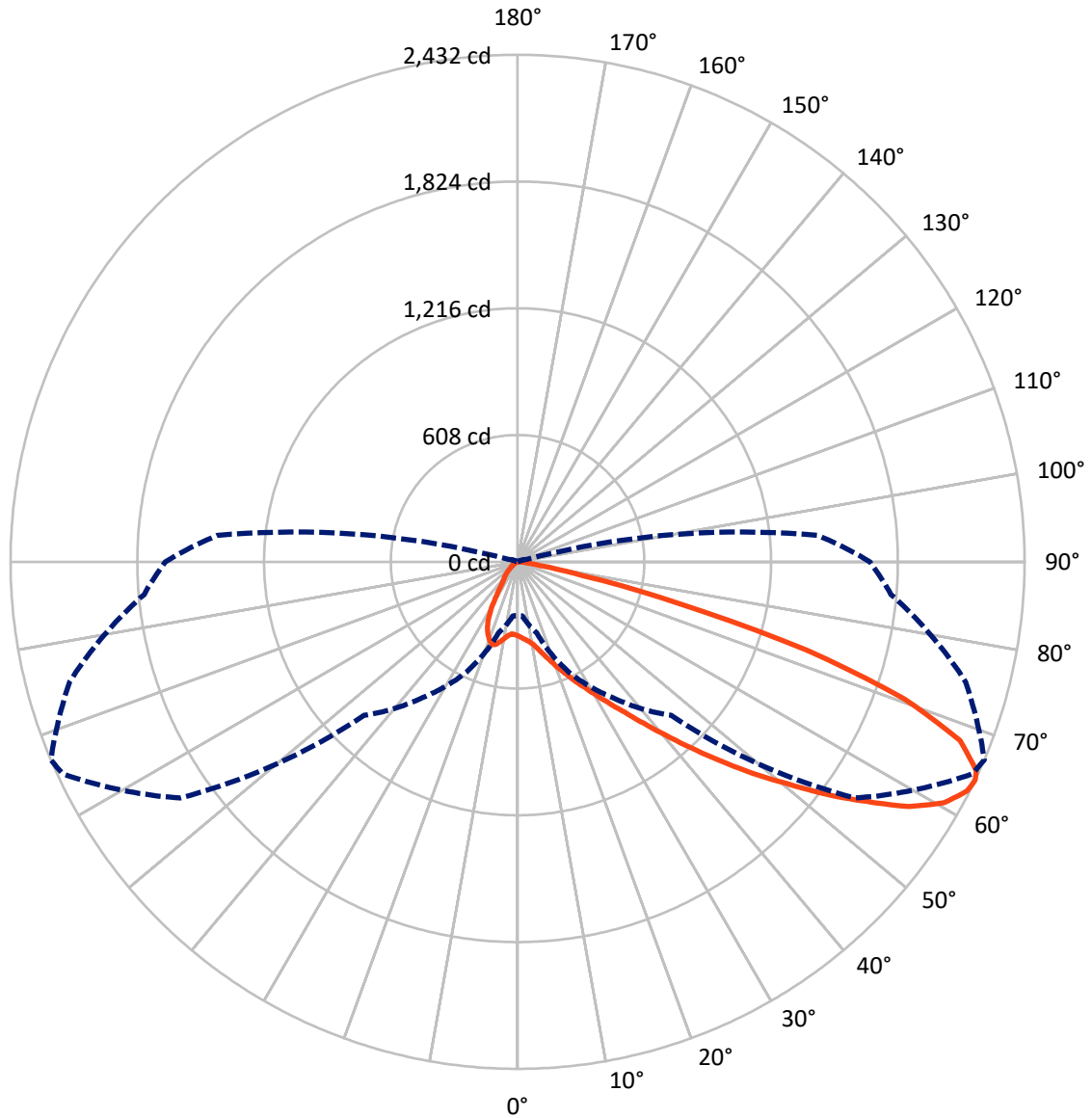
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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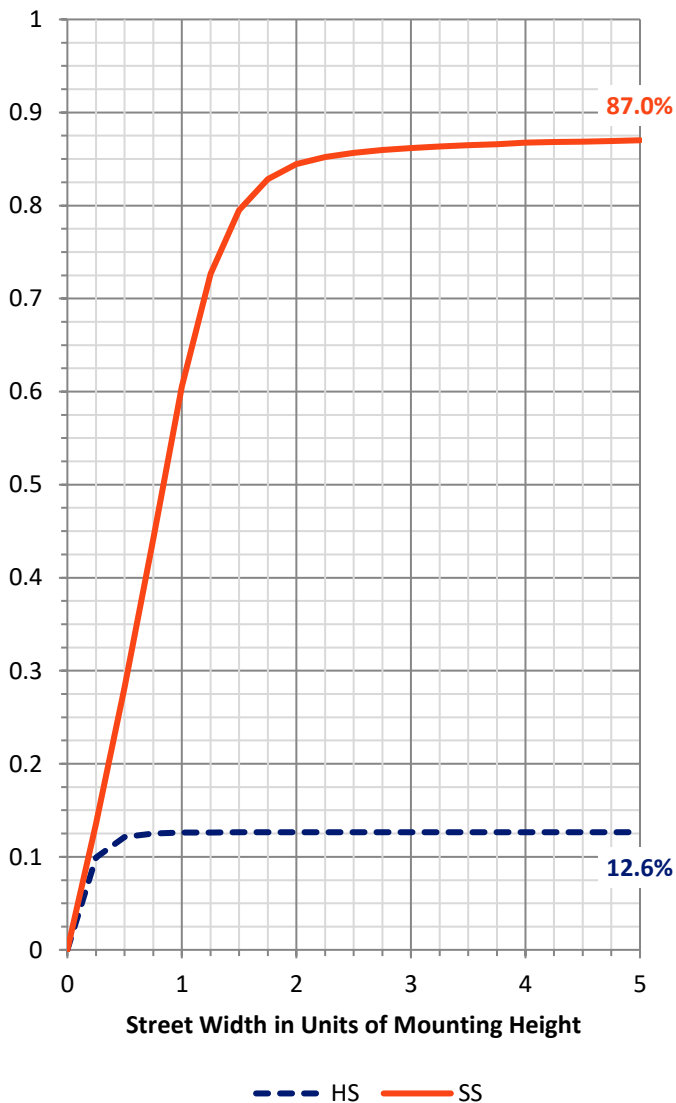
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	391.7	0.0	391.7
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	2670.3	0.0	2670.3
	% Fixture	87.2	0.0	87.2
Total	Lumens	3062.0	0.0	3062.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.7	1.1
10°-20°	99.6	3.3
20°-30°	180.7	5.9
30°-40°	346.2	11.3
40°-50°	638.1	20.8
50°-60°	824.2	26.9
60°-70°	675.1	22.0
70°-80°	248.2	8.1
80°-90°	16.0	0.5
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°	3062.0	100.0
0°-180°	3062.0	100.0

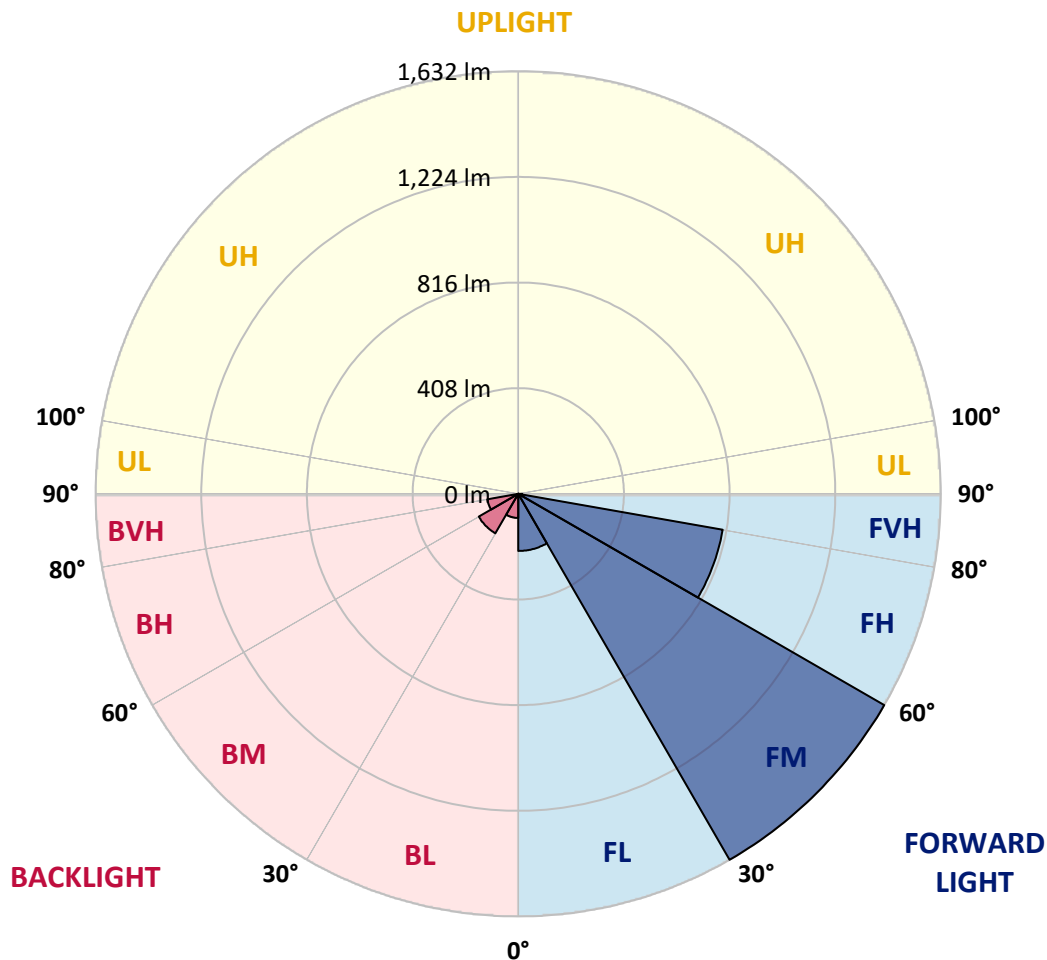


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	220.8	7.2			
FM (30°-60°)	1632.5	53.3			
FH (60°-80°)	801.8	26.2			G1/1800
FVH (80°-90°)	15.3	0.5			G1/100
BL (0°-30°)	93.3	3.0	B0/110		
BM (30°-60°)	176.1	5.8	B0/220		
BH (60°-80°)	121.5	4.0	B1/500		G1/500
BVH (80°-90°)	0.7	0.0			G0/10
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°	65°	67°	75°	85°
0°	355.8	355.8	355.8	355.8	355.8	355.8	355.8	355.8	355.8	355.8	355.8
2.5°	368.4	368.4	370.5	369.5	369.5	367.4	364.2	365.3	364.2	363.2	360.0
5°	362.1	363.2	364.2	366.3	370.5	372.6	372.6	373.7	373.7	372.6	368.4
7.5°	358.9	361.1	363.2	365.3	370.5	373.7	378.9	385.3	385.3	386.3	382.1
10°	370.5	372.6	375.8	378.9	384.2	389.5	393.7	401.1	401.1	403.2	402.1
12.5°	394.7	394.7	395.8	397.9	405.3	411.6	418.9	425.3	426.3	427.4	424.2
15°	424.2	424.2	425.3	425.3	429.5	438.9	452.6	458.9	457.9	456.8	450.5
17.5°	457.9	457.9	457.9	458.9	461.1	466.3	482.1	494.7	493.7	492.6	480.0
20°	489.5	491.6	493.7	494.7	496.8	501.1	517.9	532.6	535.8	531.6	509.5
22.5°	525.3	526.3	527.4	530.5	535.8	537.9	554.7	576.8	580.0	574.7	545.3
25°	561.1	563.2	566.3	570.5	575.8	586.3	597.9	627.4	630.5	624.2	584.2
27.5°	640.0	638.9	629.5	622.1	623.2	630.5	646.3	677.9	681.1	674.7	623.2
30°	774.7	762.1	744.2	711.6	680.0	683.2	705.3	735.8	741.1	732.6	666.3
32.5°	966.3	953.7	909.5	837.9	768.4	745.3	773.7	803.2	809.5	800.0	716.8
35°	1152.6	1149.5	1107.4	1021.1	903.2	838.9	846.3	884.2	886.3	874.7	780.0
37.5°	1383.2	1371.6	1313.7	1216.8	1077.9	963.2	942.1	977.9	983.2	969.5	856.8
40°	1535.8	1531.6	1496.8	1428.4	1278.9	1134.7	1058.9	1093.7	1092.6	1072.6	945.3
42.5°	1624.2	1626.3	1624.2	1591.6	1506.3	1341.1	1213.7	1215.8	1218.9	1197.9	1047.4
45°	1684.2	1684.2	1687.4	1713.7	1681.1	1587.4	1402.1	1354.7	1358.9	1326.3	1153.7
47.5°	1683.2	1689.5	1706.3	1767.4	1811.6	1816.8	1637.9	1516.8	1514.7	1465.3	1263.2
50°	1569.5	1565.3	1634.7	1771.6	1904.2	2006.3	1861.1	1688.4	1670.5	1609.5	1376.8
52.5°	1313.7	1327.4	1443.2	1644.2	1926.3	2134.7	2053.7	1875.8	1852.6	1752.6	1476.8
55°	1090.5	1105.3	1217.9	1414.7	1806.3	2180.0	2183.2	2074.7	2028.4	1876.8	1580.0
57.5°	818.9	847.4	1013.7	1198.9	1543.2	2067.4	2229.5	2265.3	2214.7	1996.8	1664.2
60°	523.2	540.0	726.3	954.7	1250.5	1772.6	2220.0	2375.8	2348.4	2106.3	1734.7
62.5°	342.1	351.6	480.0	718.9	952.6	1335.8	2107.4	2420.0	2420.0	2180.0	1787.4
64°	257.9	260.0	351.6	584.2	794.7	1041.1	1974.7	2406.3	2431.6	2224.2	1797.9
65°	204.2	205.3	274.7	485.3	713.7	853.7	1858.9	2376.8	2417.9	2241.1	1804.2
67.5°	143.2	146.3	177.9	280.0	511.6	492.6	1377.9	2237.9	2288.4	2246.3	1795.8
70°	124.2	128.4	149.5	183.2	365.3	286.3	732.6	1907.4	1967.4	2092.6	1671.6
72.5°	94.7	100.0	125.3	154.7	256.8	193.7	283.2	1354.7	1449.5	1617.9	1380.0
75°	68.4	70.5	92.6	126.3	180.0	149.5	122.1	698.9	794.7	954.7	857.9
77.5°	43.2	46.3	63.2	94.7	161.1	113.7	72.6	254.7	321.1	415.8	374.7
80°	25.3	26.3	37.9	65.3	108.4	84.2	46.3	90.5	109.5	154.7	100.0
82.5°	14.7	15.8	24.2	44.2	70.5	65.3	29.5	46.3	51.6	58.9	21.1
85°	5.3	5.3	16.8	26.3	37.9	32.6	16.8	24.2	26.3	32.6	6.3
87.5°	1.1	1.1	8.4	13.7	13.7	5.3	8.4	10.5	12.6	17.9	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°	355.8	355.8	355.8	355.8	355.8	355.8	355.8	355.8	355.8	355.8	355.8
2.5°	358.9	355.8	352.6	348.4	345.3	338.9	335.8	331.6	330.5	328.4	327.4
5°	367.4	362.1	354.7	344.2	337.9	328.4	322.1	315.8	314.7	312.6	311.6
7.5°	378.9	373.7	364.2	352.6	342.1	332.6	325.3	315.8	306.3	298.9	298.9
10°	397.9	391.6	378.9	368.4	355.8	335.8	301.1	269.5	249.5	236.8	232.6
12.5°	421.1	412.6	398.9	386.3	362.1	298.9	245.3	204.2	170.5	154.7	151.6
15°	445.3	437.9	424.2	405.3	332.6	249.5	178.9	115.8	83.2	68.4	70.5
17.5°	471.6	461.1	445.3	407.4	292.6	186.3	95.8	58.9	50.5	48.4	48.4
20°	498.9	485.3	469.5	384.2	241.1	107.4	54.7	44.2	41.1	37.9	38.9
22.5°	528.4	511.6	487.4	349.5	172.6	57.9	42.1	35.8	31.6	30.5	30.5
25°	560.0	535.8	505.3	309.5	100.0	44.2	34.7	28.4	25.3	24.2	23.2
27.5°	593.7	563.2	509.5	256.8	56.8	36.8	27.4	22.1	18.9	17.9	17.9
30°	624.2	590.5	500.0	190.5	43.2	30.5	22.1	16.8	14.7	14.7	14.7
32.5°	665.3	621.1	470.5	118.9	34.7	24.2	16.8	13.7	11.6	11.6	11.6
35°	718.9	666.3	441.1	63.2	28.4	20.0	13.7	10.5	9.5	9.5	9.5
37.5°	792.6	726.3	414.7	40.0	23.2	15.8	10.5	8.4	7.4	7.4	7.4
40°	868.4	797.9	377.9	30.5	18.9	12.6	8.4	6.3	5.3	5.3	6.3
42.5°	963.2	881.1	335.8	26.3	15.8	10.5	6.3	4.2	3.2	4.2	4.2
45°	1058.9	968.4	276.8	22.1	13.7	8.4	4.2	2.1	2.1	3.2	3.2
47.5°	1157.9	1061.1	214.7	18.9	11.6	6.3	3.2	1.1	1.1	2.1	2.1
50°	1260.0	1152.6	160.0	16.8	9.5	5.3	2.1	1.1	0.0	1.1	1.1
52.5°	1362.1	1241.1	124.2	14.7	8.4	4.2	1.1	0.0	0.0	0.0	1.1
55°	1456.8	1321.1	98.9	12.6	7.4	3.2	1.1	0.0	0.0	0.0	0.0
57.5°	1536.8	1380.0	78.9	11.6	6.3	2.1	1.1	0.0	0.0	0.0	0.0
60°	1612.6	1426.3	61.1	9.5	5.3	2.1	1.1	0.0	0.0	0.0	0.0
62.5°	1666.3	1444.2	49.5	8.4	4.2	2.1	0.0	0.0	0.0	0.0	0.0
64°	1689.5	1446.3	43.2	7.4	4.2	2.1	1.1	0.0	0.0	0.0	0.0
65°	1703.2	1440.0	40.0	7.4	4.2	2.1	1.1	0.0	0.0	0.0	0.0
67.5°	1706.3	1405.3	30.5	6.3	3.2	1.1	1.1	0.0	0.0	0.0	0.0
70°	1613.7	1284.2	22.1	4.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0
72.5°	1348.4	981.1	14.7	3.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0
75°	842.1	424.2	8.4	3.2	1.1	1.1	0.0	0.0	0.0	0.0	0.0
77.5°	348.4	128.4	5.3	2.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
80°	80.0	30.5	2.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	18.9	5.3	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
85°	4.2	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	1.1	1.1	1.1	1.1	1.1	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)