

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: P594454

Luminaire Tested: **ISS-PA1A-730-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594454
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-PA1A-730-U-T2U-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 3000K, 350mA 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: 2808 lumens
Efficiency: N/A
Efficacy: 97.2 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

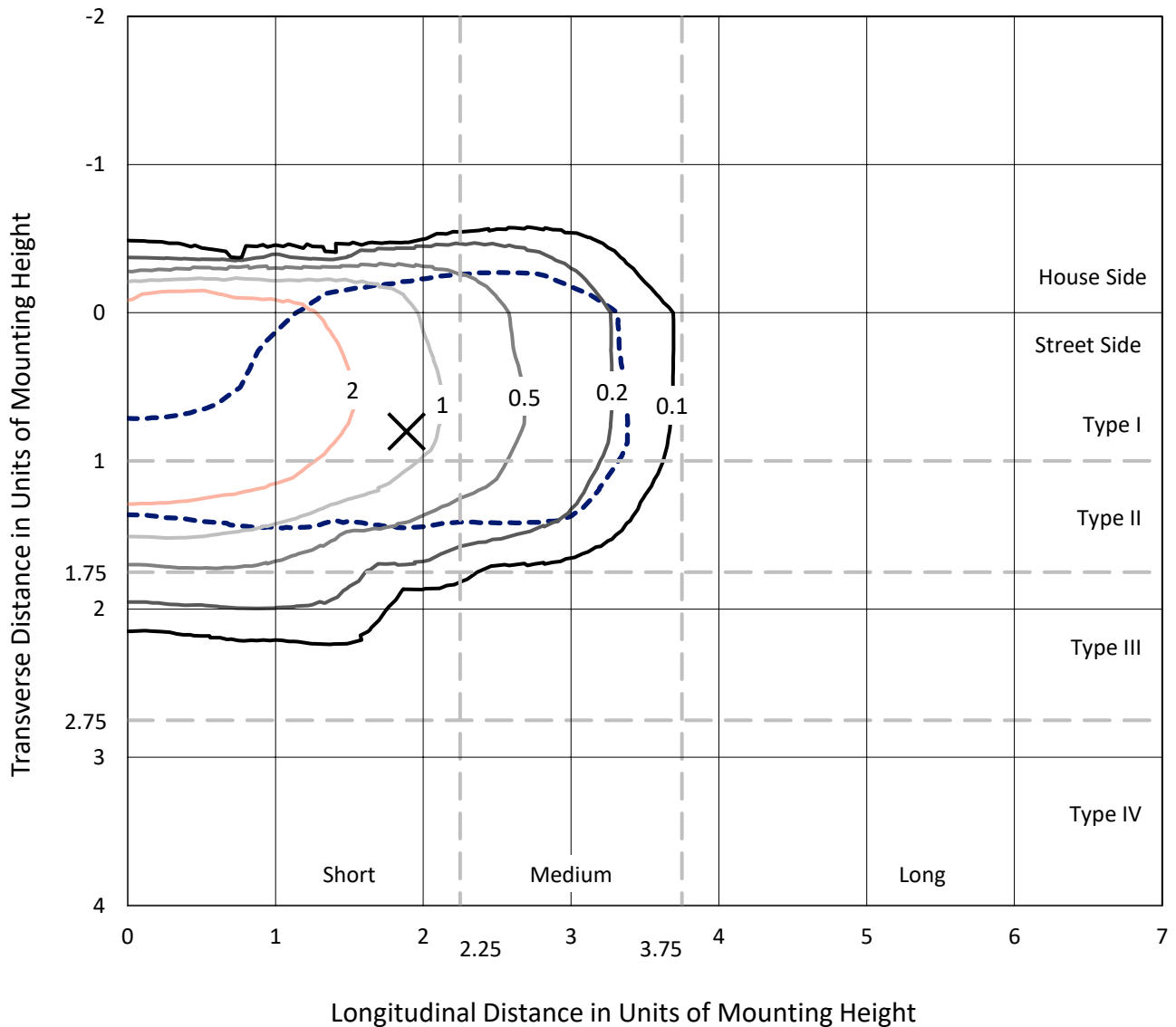
Input Watts (W): 28.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

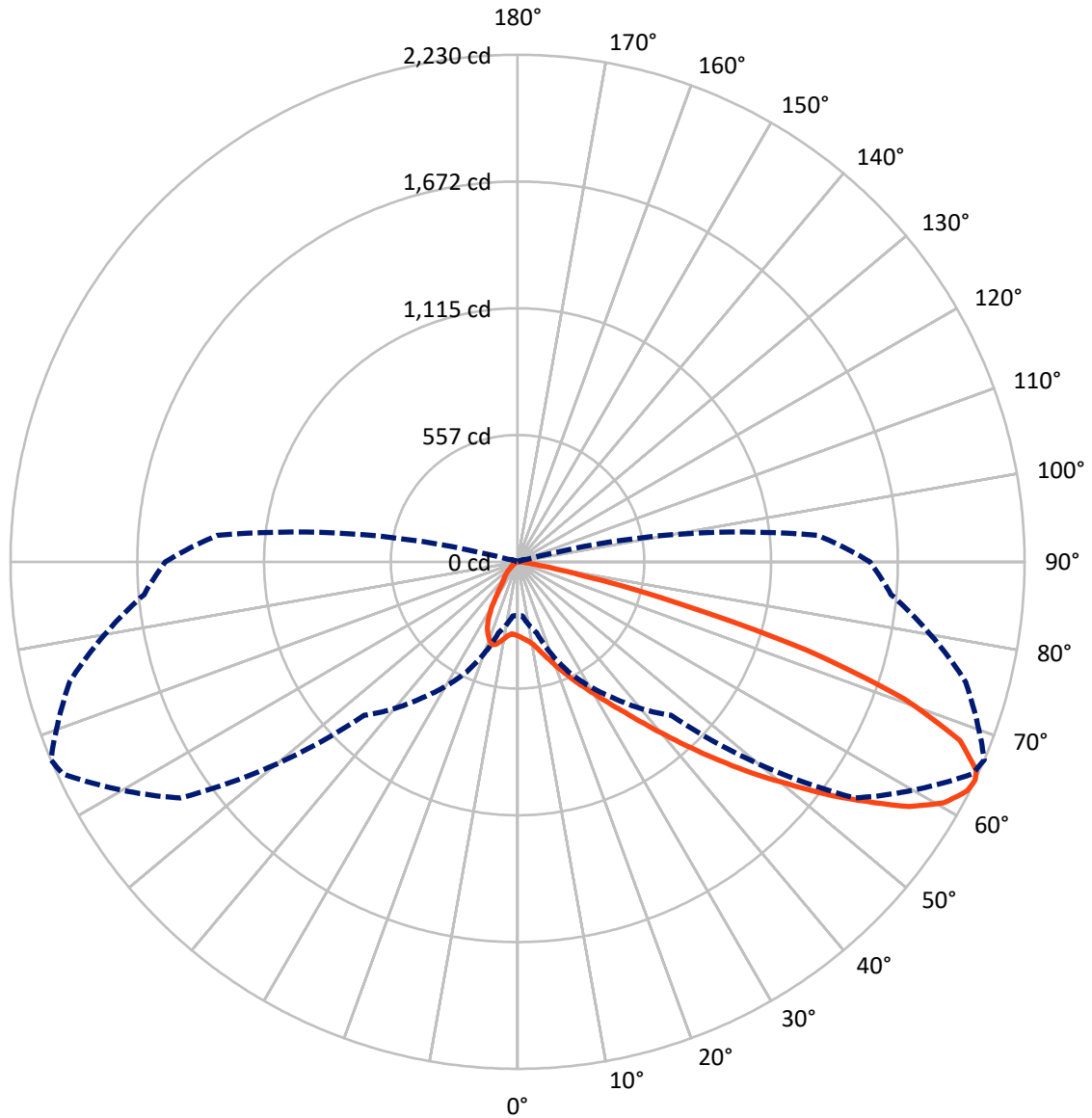
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.3 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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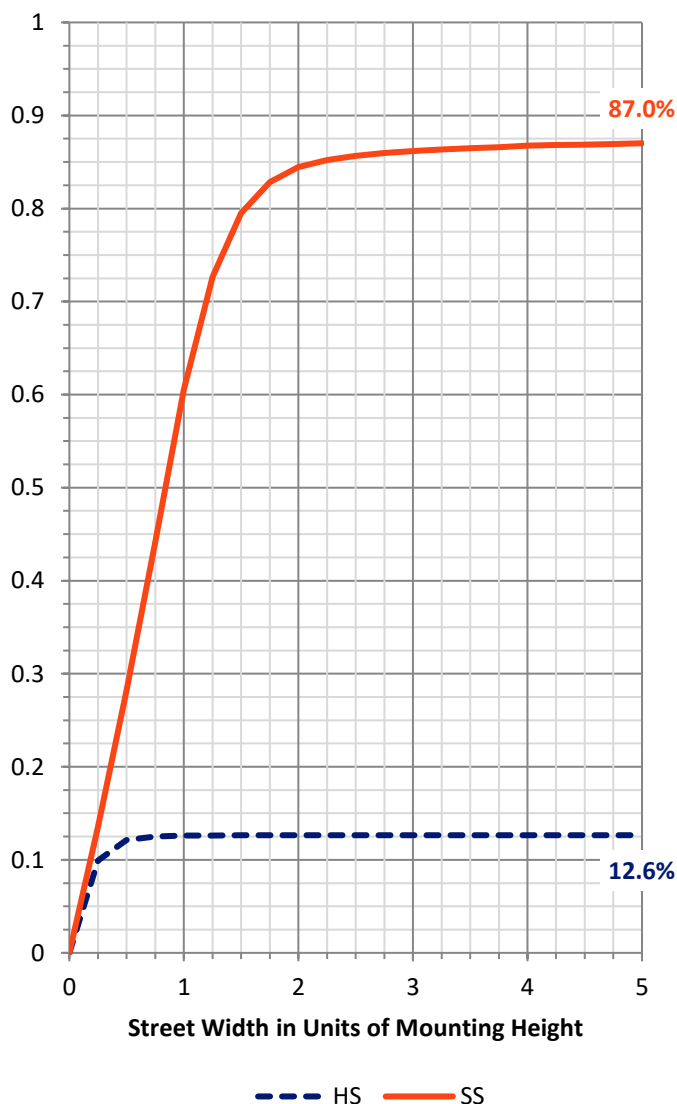
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	359.2	0.0	359.2
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	2448.8	0.0	2448.8
	% Fixture	87.2	0.0	87.2
Total	Lumens	2808.0	0.0	2808.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.9	1.1
10°-20°	91.4	3.3
20°-30°	165.7	5.9
30°-40°	317.5	11.3
40°-50°	585.2	20.8
50°-60°	755.8	26.9
60°-70°	619.1	22.0
70°-80°	227.6	8.1
80°-90°	14.7	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°	2808.0	100.0
0°-180°	2808.0	100.0

Coefficient of Utilization



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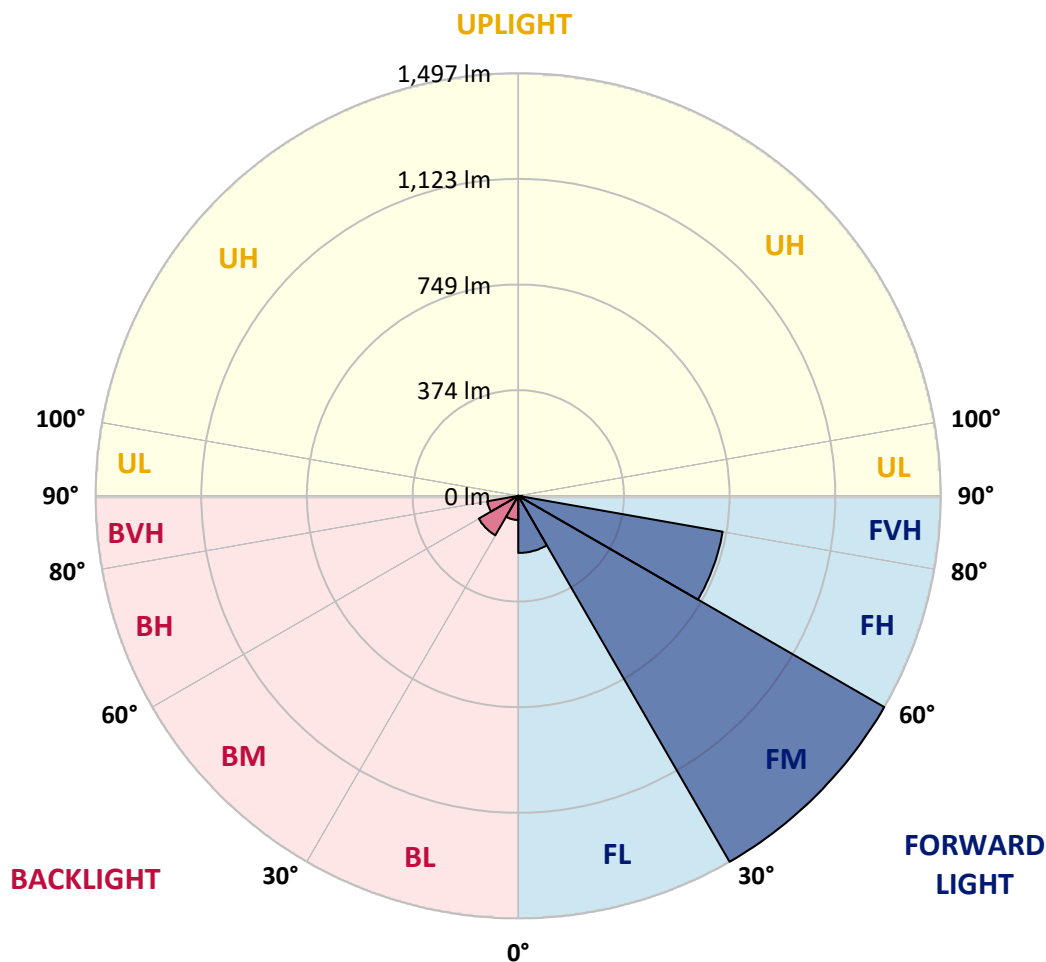
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	202.4	7.2			
FM (30°-60°)	1497.1	53.3			
FH (60°-80°)	735.3	26.2			G1/1800
FVH (80°-90°)	14.0	0.5			G1/100
BL (0°-30°)	85.6	3.0	B0/110		
BM (30°-60°)	161.5	5.8	B0/220		
BH (60°-80°)	111.4	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°	326.3	326.3	326.3	326.3	326.3	326.3	326.3	326.3	326.3	326.3	326.3
2.5°	337.9	337.9	339.8	338.8	338.8	336.9	334.0	335.0	334.0	333.0	330.1
5°	332.1	333.0	334.0	335.9	339.8	341.7	341.7	342.7	342.7	341.7	337.9
7.5°	329.2	331.1	333.0	335.0	339.8	342.7	347.5	353.3	353.3	354.3	350.4
10°	339.8	341.7	344.6	347.5	352.3	357.2	361.0	367.8	367.8	369.7	368.7
12.5°	362.0	362.0	363.0	364.9	371.6	377.4	384.2	390.0	391.0	391.9	389.0
15°	389.0	389.0	390.0	390.0	393.8	402.5	415.1	420.9	419.9	418.9	413.2
17.5°	419.9	419.9	419.9	420.9	422.8	427.6	442.1	453.7	452.7	451.8	440.2
20°	448.9	450.8	452.7	453.7	455.6	459.5	474.9	488.4	491.3	487.5	467.2
22.5°	481.7	482.7	483.6	486.5	491.3	493.3	508.7	529.0	531.9	527.1	500.0
25°	514.5	516.4	519.3	523.2	528.0	537.7	548.3	575.3	578.2	572.4	535.7
27.5°	586.9	585.9	577.3	570.5	571.5	578.2	592.7	621.7	624.6	618.8	571.5
30°	710.5	698.9	682.5	652.6	623.6	626.5	646.8	674.8	679.6	671.9	611.0
32.5°	886.2	874.6	834.0	768.4	704.7	683.4	709.5	736.5	742.3	733.6	657.4
35°	1057.0	1054.1	1015.5	936.4	828.2	769.4	776.1	810.9	812.8	802.2	715.3
37.5°	1268.4	1257.8	1204.7	1115.9	988.5	883.3	864.0	896.8	901.6	889.1	785.8
40°	1408.4	1404.5	1372.7	1309.9	1172.9	1040.6	971.1	1003.0	1002.0	983.7	866.9
42.5°	1489.5	1491.4	1489.5	1459.6	1381.4	1229.8	1113.0	1114.9	1117.8	1098.5	960.5
45°	1544.5	1544.5	1547.4	1571.5	1541.6	1455.7	1285.8	1242.4	1246.2	1216.3	1058.0
47.5°	1543.5	1549.3	1564.8	1620.8	1661.3	1666.1	1502.0	1391.0	1389.1	1343.7	1158.4
50°	1439.3	1435.4	1499.1	1624.6	1746.3	1839.9	1706.7	1548.4	1532.0	1476.0	1262.6
52.5°	1204.7	1217.3	1323.4	1507.8	1766.5	1957.7	1883.3	1720.2	1699.0	1607.2	1354.3
55°	1000.1	1013.6	1116.9	1297.4	1656.5	1999.2	2002.1	1902.6	1860.2	1721.2	1448.9
57.5°	751.0	777.1	929.6	1099.5	1415.1	1895.9	2044.5	2077.4	2031.0	1831.2	1526.2
60°	479.8	495.2	666.1	875.5	1146.8	1625.6	2035.8	2178.7	2153.6	1931.6	1590.8
62.5°	313.7	322.4	440.2	659.3	873.6	1225.0	1932.6	2219.3	2219.3	1999.2	1639.1
64°	236.5	238.4	322.4	535.7	728.8	954.7	1810.9	2206.7	2229.9	2039.7	1648.8
65°	187.3	188.2	251.9	445.0	654.5	782.9	1704.7	2179.7	2217.3	2055.2	1654.5
67.5°	131.3	134.2	163.1	256.8	469.1	451.8	1263.6	2052.3	2098.6	2060.0	1646.8
70°	113.9	117.8	137.1	168.0	335.0	262.6	671.9	1749.1	1804.2	1919.0	1532.9
72.5°	86.9	91.7	114.9	141.9	235.5	177.6	259.7	1242.4	1329.2	1483.7	1265.5
75°	62.7	64.7	84.9	115.8	165.1	137.1	112.0	641.0	728.8	875.5	786.7
77.5°	39.6	42.5	57.9	86.9	147.7	104.3	66.6	233.6	294.4	381.3	343.7
80°	23.2	24.1	34.8	59.8	99.4	77.2	42.5	83.0	100.4	141.9	91.7
82.5°	13.5	14.5	22.2	40.5	64.7	59.8	27.0	42.5	47.3	54.1	19.3
85°	4.8	4.8	15.4	24.1	34.8	29.9	15.4	22.2	24.1	29.9	5.8
87.5°	1.0	1.0	7.7	12.5	12.5	4.8	7.7	9.7	11.6	16.4	1.9
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°	326.3	326.3	326.3	326.3	326.3	326.3	326.3	326.3	326.3	326.3	326.3
2.5°	329.2	326.3	323.4	319.5	316.6	310.8	307.9	304.1	303.1	301.2	300.2
5°	336.9	332.1	325.3	315.7	309.9	301.2	295.4	289.6	288.6	286.7	285.7
7.5°	347.5	342.7	334.0	323.4	313.7	305.0	298.3	289.6	280.9	274.1	274.1
10°	364.9	359.1	347.5	337.9	326.3	307.9	276.1	247.1	228.8	217.2	213.3
12.5°	386.1	378.4	365.9	354.3	332.1	274.1	224.9	187.3	156.4	141.9	139.0
15°	408.3	401.6	389.0	371.6	305.0	228.8	164.1	106.2	76.3	62.7	64.7
17.5°	432.5	422.8	408.3	373.6	268.4	170.9	87.8	54.1	46.3	44.4	44.4
20°	457.6	445.0	430.5	352.3	221.1	98.5	50.2	40.5	37.6	34.8	35.7
22.5°	484.6	469.1	446.9	320.5	158.3	53.1	38.6	32.8	29.0	28.0	28.0
25°	513.5	491.3	463.4	283.8	91.7	40.5	31.9	26.1	23.2	22.2	21.2
27.5°	544.4	516.4	467.2	235.5	52.1	33.8	25.1	20.3	17.4	16.4	16.4
30°	572.4	541.5	458.5	174.7	39.6	28.0	20.3	15.4	13.5	13.5	13.5
32.5°	610.1	569.5	431.5	109.1	31.9	22.2	15.4	12.5	10.6	10.6	10.6
35°	659.3	611.0	404.5	57.9	26.1	18.3	12.5	9.7	8.7	8.7	8.7
37.5°	726.9	666.1	380.3	36.7	21.2	14.5	9.7	7.7	6.8	6.8	6.8
40°	796.4	731.7	346.5	28.0	17.4	11.6	7.7	5.8	4.8	4.8	5.8
42.5°	883.3	808.0	307.9	24.1	14.5	9.7	5.8	3.9	2.9	3.9	3.9
45°	971.1	888.1	253.9	20.3	12.5	7.7	3.9	1.9	1.9	2.9	2.9
47.5°	1061.8	973.0	196.9	17.4	10.6	5.8	2.9	1.0	1.0	1.9	1.9
50°	1155.5	1057.0	146.7	15.4	8.7	4.8	1.9	1.0	0.0	1.0	1.0
52.5°	1249.1	1138.1	113.9	13.5	7.7	3.9	1.0	0.0	0.0	0.0	1.0
55°	1336.0	1211.5	90.7	11.6	6.8	2.9	1.0	0.0	0.0	0.0	0.0
57.5°	1409.4	1265.5	72.4	10.6	5.8	1.9	1.0	0.0	0.0	0.0	0.0
60°	1478.9	1308.0	56.0	8.7	4.8	1.9	1.0	0.0	0.0	0.0	0.0
62.5°	1528.1	1324.4	45.4	7.7	3.9	1.9	0.0	0.0	0.0	0.0	0.0
64°	1549.3	1326.3	39.6	6.8	3.9	1.9	1.0	0.0	0.0	0.0	0.0
65°	1561.9	1320.5	36.7	6.8	3.9	1.9	1.0	0.0	0.0	0.0	0.0
67.5°	1564.8	1288.7	28.0	5.8	2.9	1.0	1.0	0.0	0.0	0.0	0.0
70°	1479.8	1177.7	20.3	3.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0
72.5°	1236.6	899.7	13.5	2.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0
75°	772.3	389.0	7.7	2.9	1.0	1.0	0.0	0.0	0.0	0.0	0.0
77.5°	319.5	117.8	4.8	1.9	1.0	1.0	0.0	0.0	0.0	0.0	0.0
80°	73.4	28.0	1.9	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	17.4	4.8	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
85°	3.9	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	1.0	1.0	1.0	1.0	1.0	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)