

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: P594445

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

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594445
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-727-U-T2U-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 2700K, 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: 2578 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

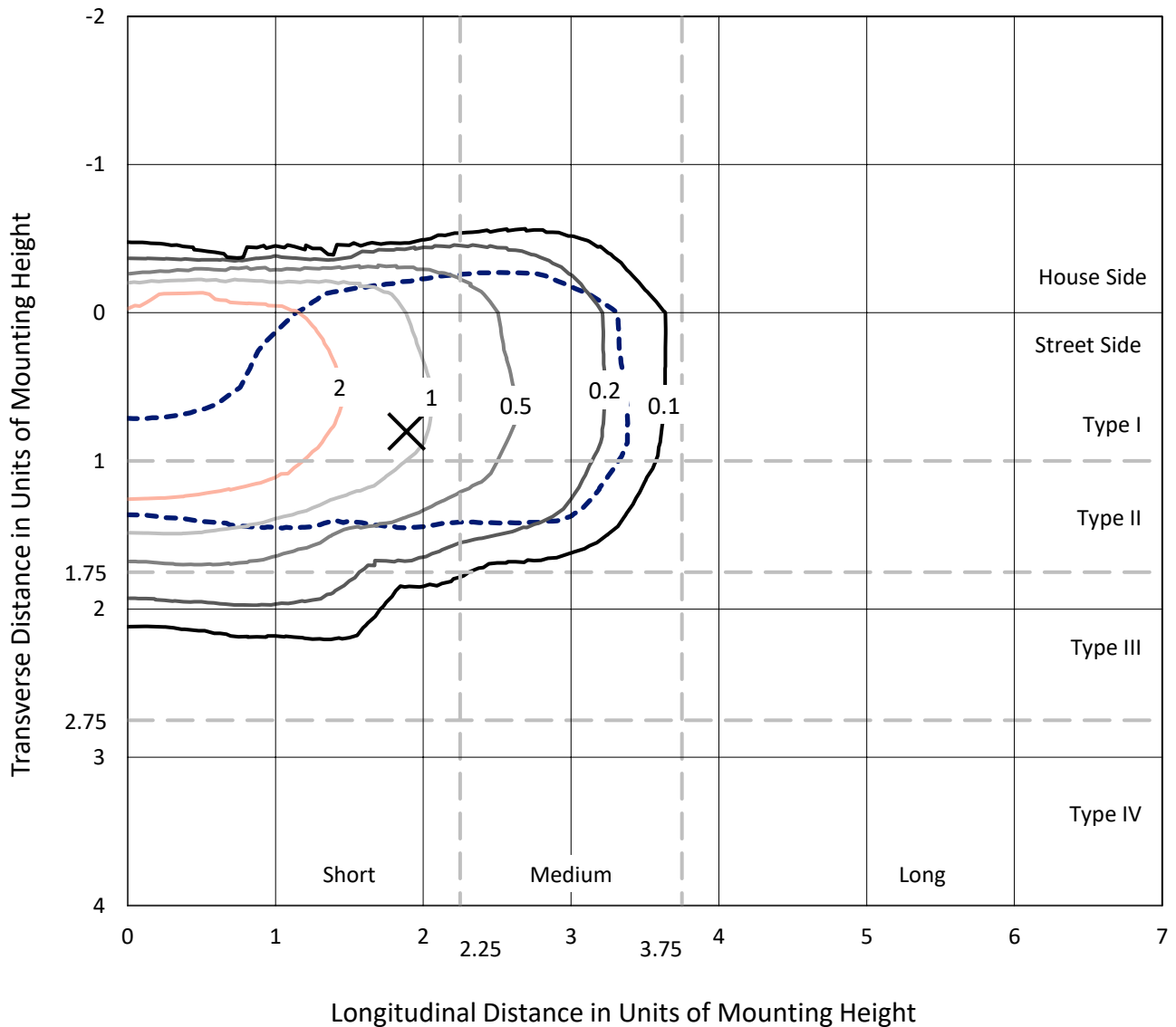
Input Watts (W): 28.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

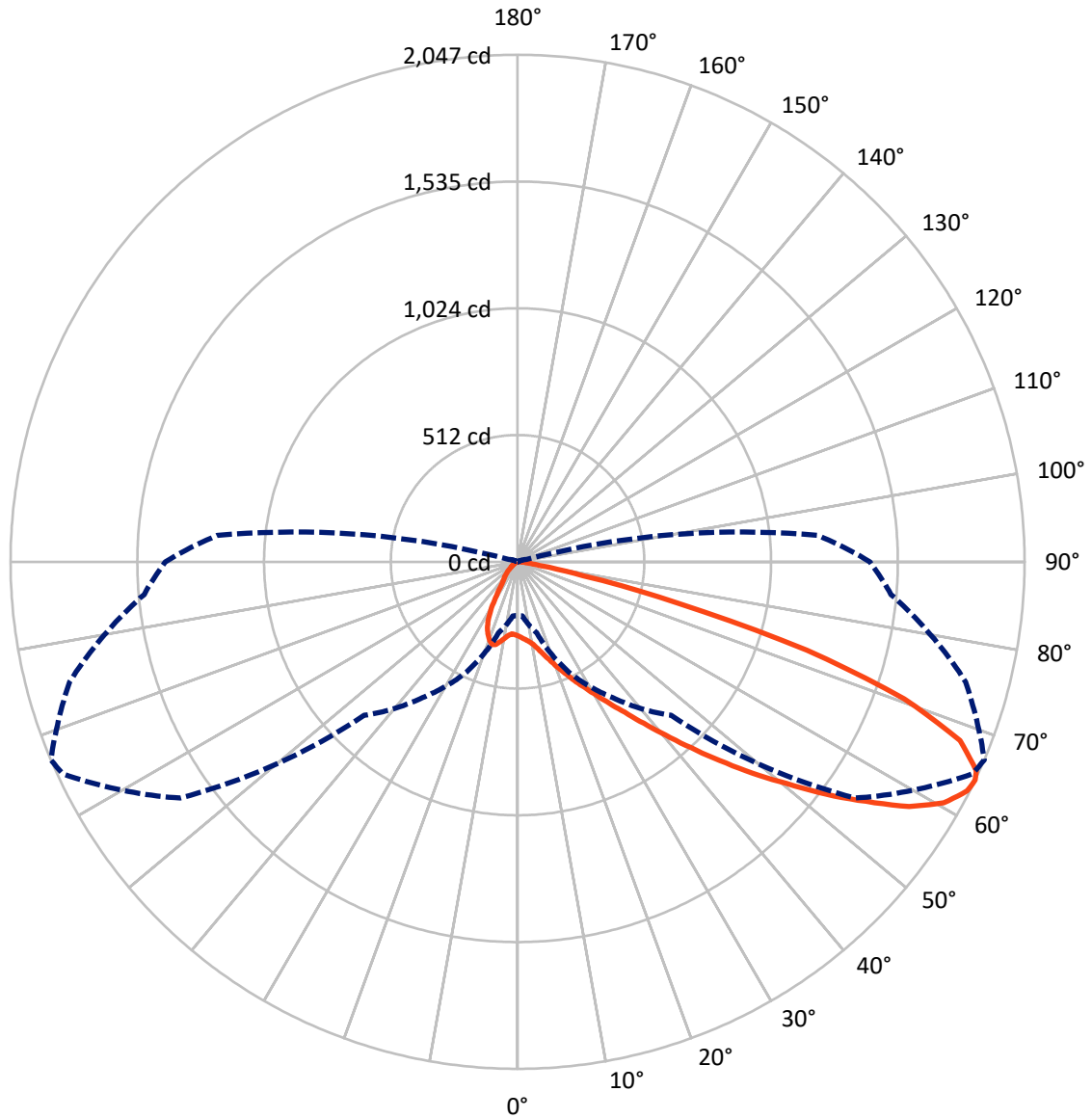
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4 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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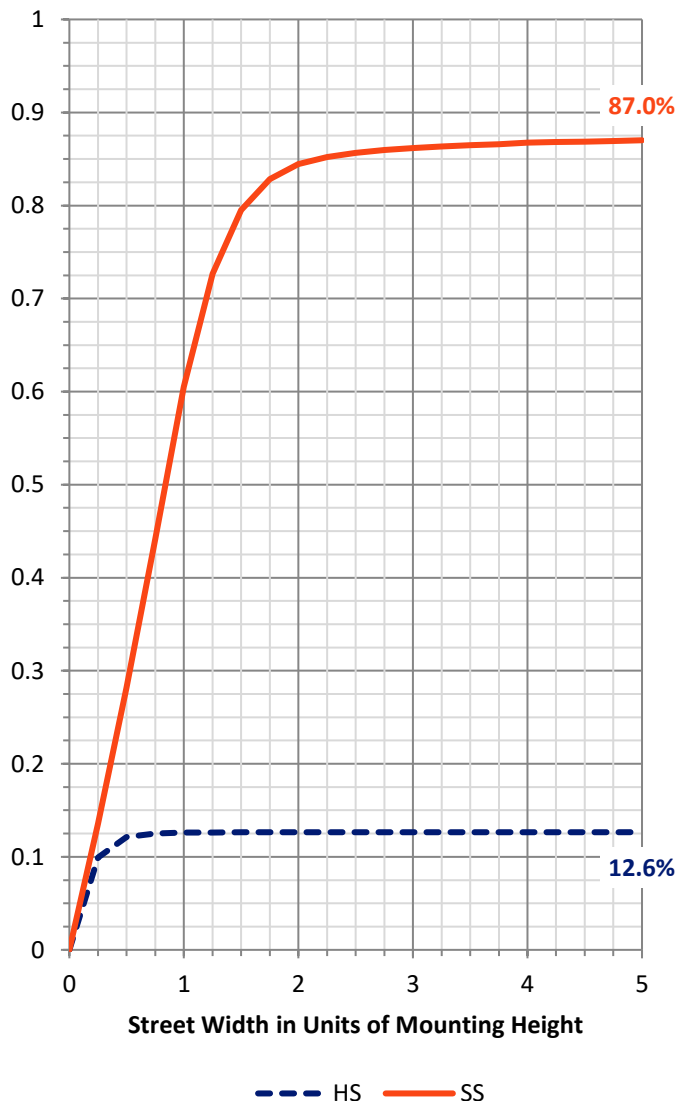
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	329.8	0.0	329.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	2248.2	0.0	2248.2
	% Fixture	87.2	0.0	87.2
Total	Lumens	2578.0	0.0	2578.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.4	1.1
10°-20°	83.9	3.3
20°-30°	152.2	5.9
30°-40°	291.5	11.3
40°-50°	537.3	20.8
50°-60°	693.9	26.9
60°-70°	568.4	22.0
70°-80°	209.0	8.1
80°-90°	13.5	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°	2578.0	100.0
0°-180°	2578.0	100.0

Coefficient of Utilization

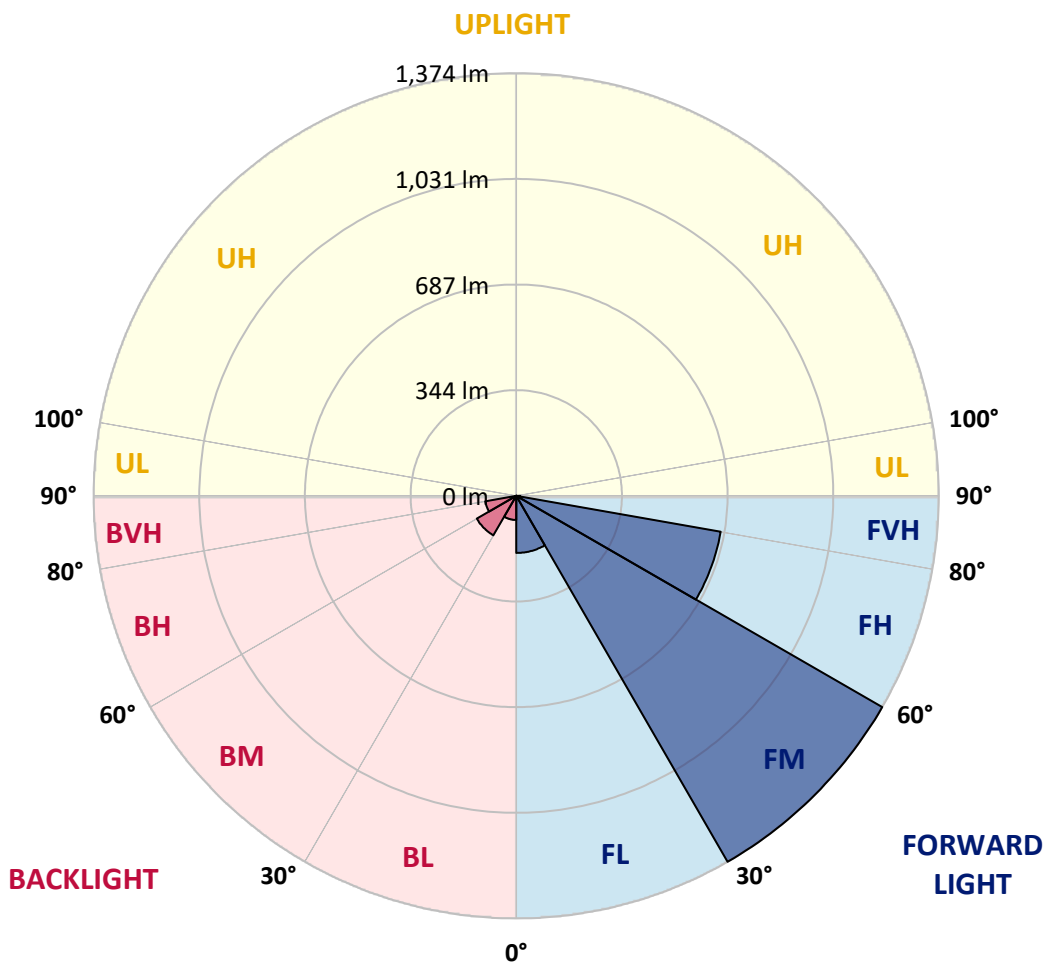


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	185.9	7.2			
FM (30°-60°)	1374.4	53.3			
FH (60°-80°)	675.0	26.2			G1/1800
FVH (80°-90°)	12.9	0.5			G1/100
BL (0°-30°)	78.6	3.0	B0/110		
BM (30°-60°)	148.3	5.8	B0/220		
BH (60°-80°)	102.3	4.0	B0/110		G0/110
BVH (80°-90°)	0.6	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	299.6	299.6	299.6	299.6	299.6	299.6	299.6	299.6	299.6	299.6	299.6
2.5°	310.2	310.2	312.0	311.1	311.1	309.3	306.6	307.5	306.6	305.8	303.1
5°	304.9	305.8	306.6	308.4	312.0	313.7	313.7	314.6	314.6	313.7	310.2
7.5°	302.2	304.0	305.8	307.5	312.0	314.6	319.0	324.4	324.4	325.3	321.7
10°	312.0	313.7	316.4	319.0	323.5	327.9	331.5	337.7	337.7	339.4	338.5
12.5°	332.3	332.3	333.2	335.0	341.2	346.5	352.7	358.0	358.9	359.8	357.2
15°	357.2	357.2	358.0	358.0	361.6	369.6	381.1	386.4	385.5	384.6	379.3
17.5°	385.5	385.5	385.5	386.4	388.2	392.6	405.9	416.5	415.6	414.8	404.1
20°	412.1	413.9	415.6	416.5	418.3	421.9	436.0	448.4	451.1	447.6	428.9
22.5°	442.2	443.1	444.0	446.7	451.1	452.9	467.1	485.7	488.3	483.9	459.1
25°	472.4	474.1	476.8	480.3	484.8	493.6	503.4	528.2	530.9	525.5	491.9
27.5°	538.8	538.0	530.0	523.8	524.7	530.9	544.2	570.7	573.4	568.1	524.7
30°	652.3	641.6	626.6	599.1	572.5	575.2	593.8	619.5	623.9	616.8	561.0
32.5°	813.6	802.9	765.7	705.5	647.0	627.5	651.4	676.2	681.5	673.5	603.5
35°	970.4	967.8	932.3	859.7	760.4	706.3	712.5	744.4	746.2	736.5	656.7
37.5°	1164.5	1154.8	1106.0	1024.5	907.5	810.9	793.2	823.3	827.8	816.2	721.4
40°	1293.0	1289.5	1260.2	1202.6	1076.8	955.4	891.6	920.8	919.9	903.1	795.8
42.5°	1367.5	1369.2	1367.5	1340.0	1268.2	1129.1	1021.8	1023.6	1026.3	1008.5	881.8
45°	1418.0	1418.0	1420.7	1442.8	1415.3	1336.5	1180.5	1140.6	1144.1	1116.7	971.3
47.5°	1417.1	1422.4	1436.6	1488.0	1525.2	1529.7	1379.0	1277.1	1275.3	1233.7	1063.5
50°	1321.4	1317.8	1376.3	1491.6	1603.2	1689.2	1566.9	1421.5	1406.5	1355.1	1159.2
52.5°	1106.0	1117.6	1215.0	1384.3	1621.8	1797.3	1729.1	1579.3	1559.8	1475.6	1243.4
55°	918.1	930.6	1025.4	1191.1	1520.8	1835.4	1838.1	1746.8	1707.8	1580.2	1330.3
57.5°	689.5	713.4	853.5	1009.4	1299.2	1740.6	1877.1	1907.2	1864.7	1681.2	1401.2
60°	440.5	454.6	611.5	803.8	1052.9	1492.4	1869.1	2000.3	1977.2	1773.4	1460.5
62.5°	288.0	296.0	404.1	605.3	802.1	1124.6	1774.3	2037.5	2037.5	1835.4	1504.8
64°	217.1	218.9	296.0	491.9	669.1	876.5	1662.6	2026.0	2047.2	1872.6	1513.7
65°	171.9	172.8	231.3	408.6	600.9	718.7	1565.1	2001.1	2035.7	1886.8	1519.0
67.5°	120.5	123.2	149.8	235.7	430.7	414.8	1160.1	1884.2	1926.7	1891.2	1511.9
70°	104.6	108.1	125.8	154.2	307.5	241.1	616.8	1605.9	1656.4	1761.9	1407.4
72.5°	79.8	84.2	105.5	130.3	216.2	163.1	238.4	1140.6	1220.4	1362.2	1161.9
75°	57.6	59.4	78.0	106.3	151.5	125.8	102.8	588.5	669.1	803.8	722.3
77.5°	36.3	39.0	53.2	79.8	135.6	95.7	61.2	214.5	270.3	350.1	315.5
80°	21.3	22.2	31.9	54.9	91.3	70.9	39.0	76.2	92.2	130.3	84.2
82.5°	12.4	13.3	20.4	37.2	59.4	54.9	24.8	39.0	43.4	49.6	17.7
85°	4.4	4.4	14.2	22.2	31.9	27.5	14.2	20.4	22.2	27.5	5.3
87.5°	0.9	0.9	7.1	11.5	11.5	4.4	7.1	8.9	10.6	15.1	1.8
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°	299.6	299.6	299.6	299.6	299.6	299.6	299.6	299.6	299.6	299.6	299.6
2.5°	302.2	299.6	296.9	293.3	290.7	285.4	282.7	279.2	278.3	276.5	275.6
5°	309.3	304.9	298.7	289.8	284.5	276.5	271.2	265.9	265.0	263.2	262.3
7.5°	319.0	314.6	306.6	296.9	288.0	280.1	273.8	265.9	257.9	251.7	251.7
10°	335.0	329.7	319.0	310.2	299.6	282.7	253.5	226.9	210.0	199.4	195.9
12.5°	354.5	347.4	335.9	325.3	304.9	251.7	206.5	171.9	143.6	130.3	127.6
15°	374.9	368.7	357.2	341.2	280.1	210.0	150.7	97.5	70.0	57.6	59.4
17.5°	397.0	388.2	374.9	343.0	246.4	156.9	80.6	49.6	42.5	40.8	40.8
20°	420.1	408.6	395.3	323.5	203.0	90.4	46.1	37.2	34.6	31.9	32.8
22.5°	444.9	430.7	410.3	294.2	145.3	48.7	35.4	30.1	26.6	25.7	25.7
25°	471.5	451.1	425.4	260.6	84.2	37.2	29.2	23.9	21.3	20.4	19.5
27.5°	499.8	474.1	428.9	216.2	47.9	31.0	23.0	18.6	16.0	15.1	15.1
30°	525.5	497.2	421.0	160.4	36.3	25.7	18.6	14.2	12.4	12.4	12.4
32.5°	560.1	522.9	396.2	100.1	29.2	20.4	14.2	11.5	9.7	9.7	9.7
35°	605.3	561.0	371.3	53.2	23.9	16.8	11.5	8.9	8.0	8.0	8.0
37.5°	667.3	611.5	349.2	33.7	19.5	13.3	8.9	7.1	6.2	6.2	6.2
40°	731.2	671.8	318.2	25.7	16.0	10.6	7.1	5.3	4.4	4.4	5.3
42.5°	810.9	741.8	282.7	22.2	13.3	8.9	5.3	3.5	2.7	3.5	3.5
45°	891.6	815.3	233.1	18.6	11.5	7.1	3.5	1.8	1.8	2.7	2.7
47.5°	974.9	893.3	180.8	16.0	9.7	5.3	2.7	0.9	0.9	1.8	1.8
50°	1060.8	970.4	134.7	14.2	8.0	4.4	1.8	0.9	0.0	0.9	0.9
52.5°	1146.8	1044.9	104.6	12.4	7.1	3.5	0.9	0.0	0.0	0.0	0.9
55°	1226.6	1112.2	83.3	10.6	6.2	2.7	0.9	0.0	0.0	0.0	0.0
57.5°	1293.9	1161.9	66.5	9.7	5.3	1.8	0.9	0.0	0.0	0.0	0.0
60°	1357.7	1200.9	51.4	8.0	4.4	1.8	0.9	0.0	0.0	0.0	0.0
62.5°	1402.9	1215.9	41.7	7.1	3.5	1.8	0.0	0.0	0.0	0.0	0.0
64°	1422.4	1217.7	36.3	6.2	3.5	1.8	0.9	0.0	0.0	0.0	0.0
65°	1433.9	1212.4	33.7	6.2	3.5	1.8	0.9	0.0	0.0	0.0	0.0
67.5°	1436.6	1183.1	25.7	5.3	2.7	0.9	0.9	0.0	0.0	0.0	0.0
70°	1358.6	1081.2	18.6	3.5	1.8	0.9	0.0	0.0	0.0	0.0	0.0
72.5°	1135.3	826.0	12.4	2.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0
75°	709.0	357.2	7.1	2.7	0.9	0.9	0.0	0.0	0.0	0.0	0.0
77.5°	293.3	108.1	4.4	1.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0
80°	67.4	25.7	1.8	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	16.0	4.4	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
85°	3.5	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	0.9	0.9	0.9	0.9	0.9	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)