

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: P594562

Luminaire Tested: **ISS-PA1B-740-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594562
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-740-U-T2U-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 4000K, 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: 3853 lumens
Efficiency: N/A
Efficacy: 105.9 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

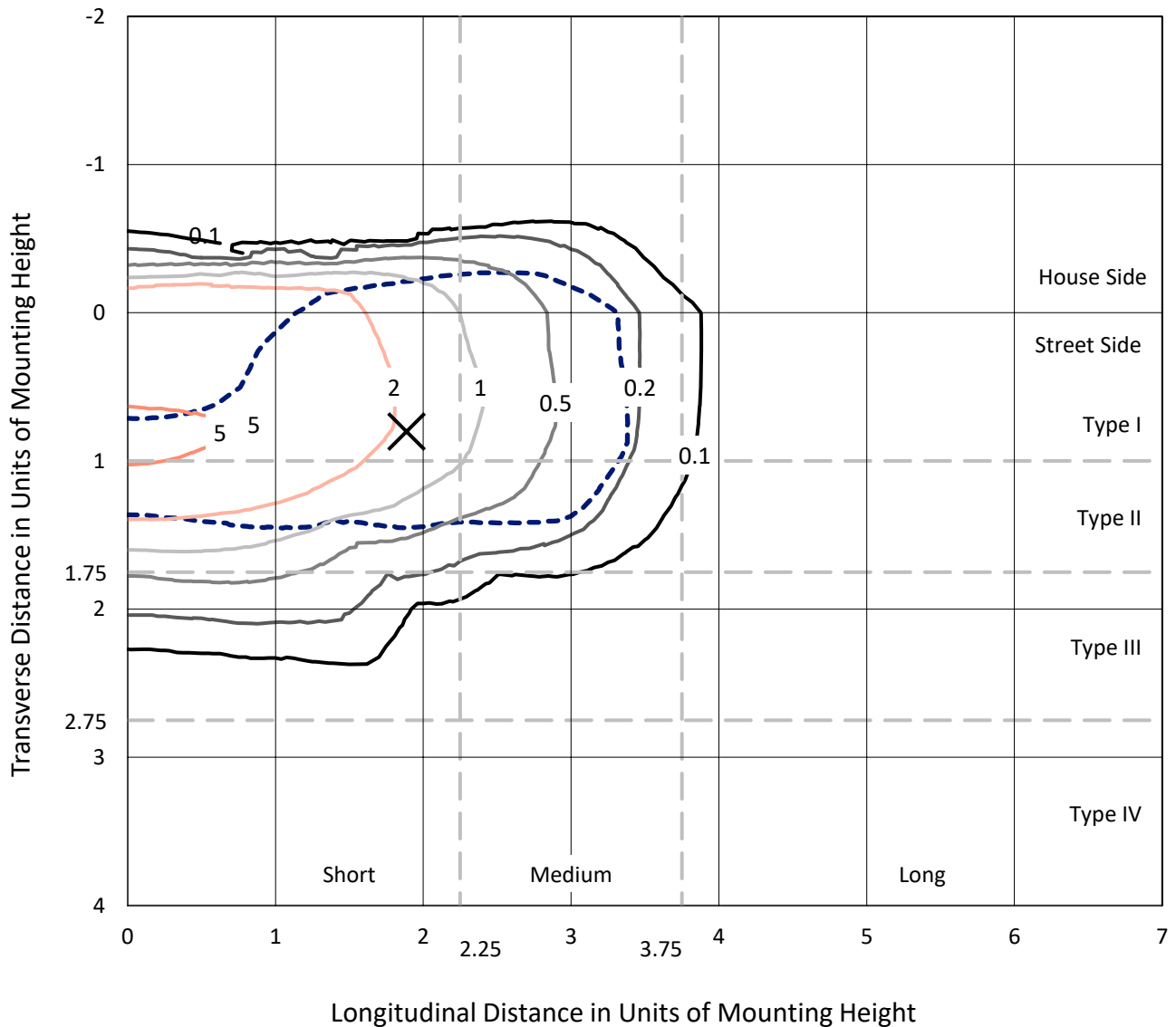
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

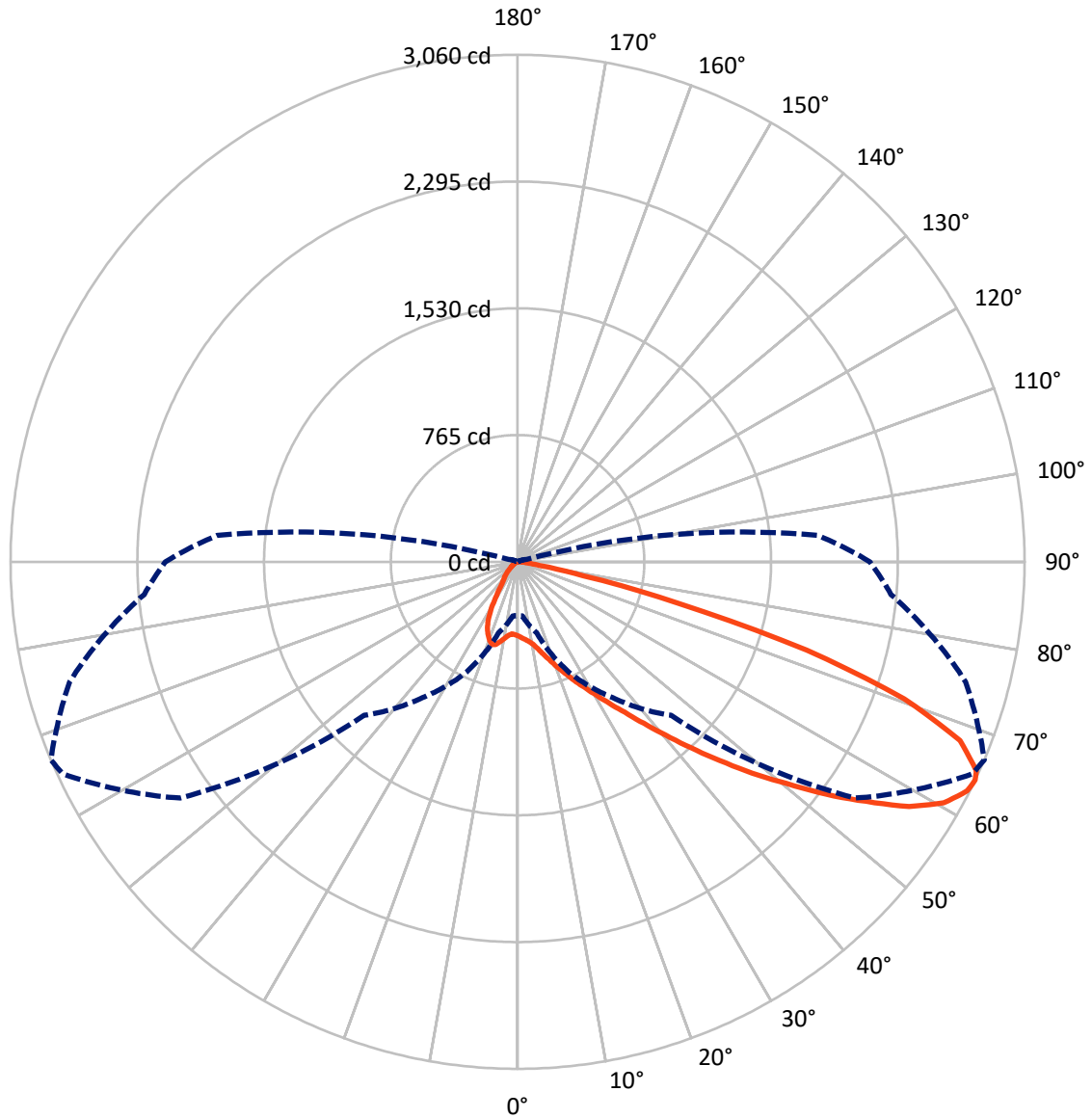
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.9 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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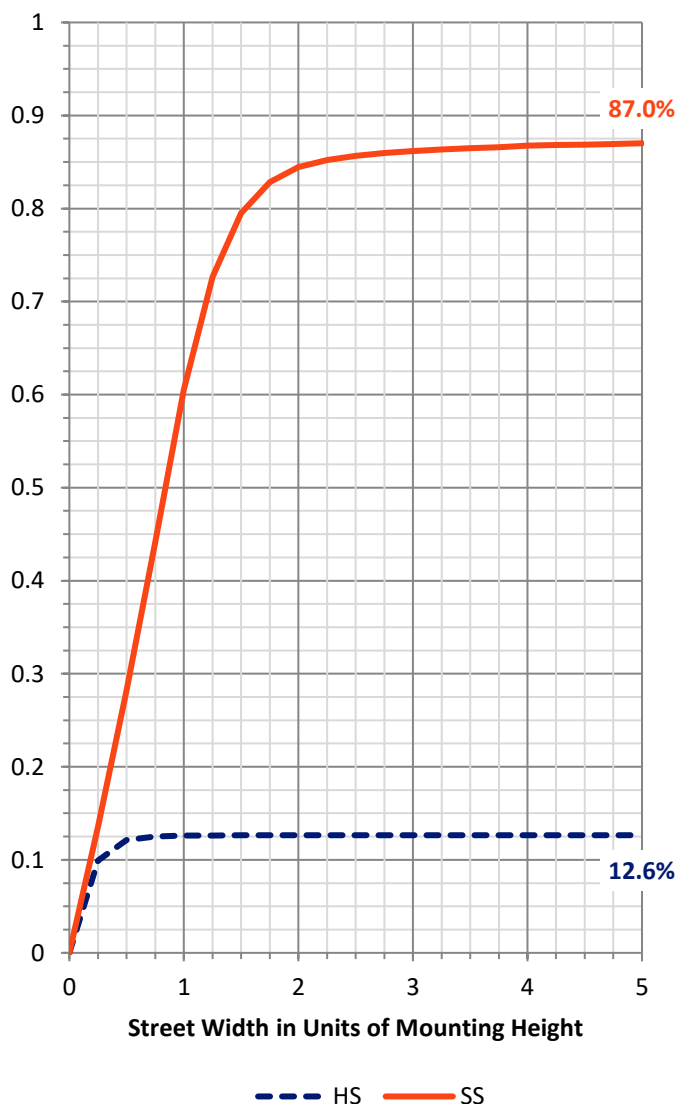
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	492.9	0.0	492.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	3360.1	0.0	3360.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	3853.0	0.0	3853.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.5	1.1
10°-20°	125.4	3.3
20°-30°	227.4	5.9
30°-40°	435.7	11.3
40°-50°	803.0	20.8
50°-60°	1037.1	26.9
60°-70°	849.5	22.0
70°-80°	312.3	8.1
80°-90°	20.1	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°	3853.0	100.0
0°-180°	3853.0	100.0

Coefficient of Utilization



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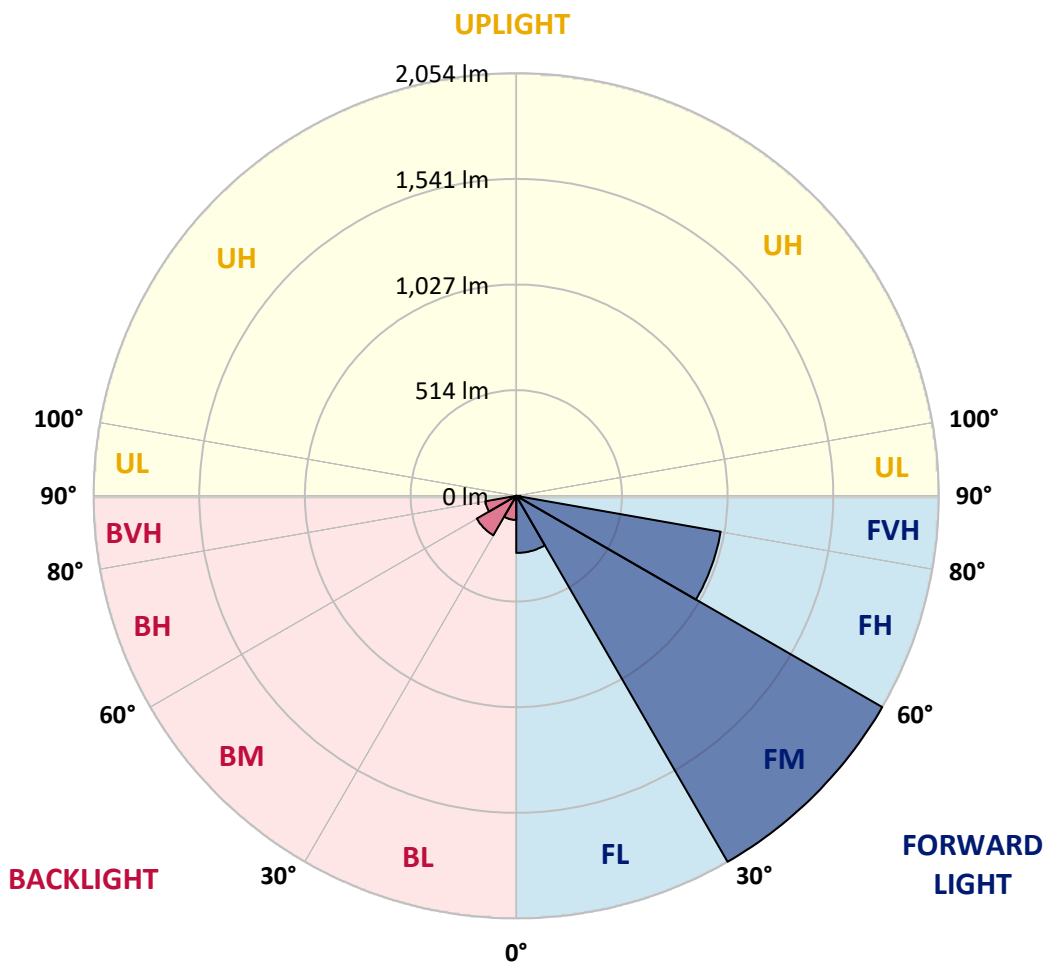
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	277.8	7.2			
FM (30°-60°)	2054.2	53.3			
FH (60°-80°)	1008.9	26.2			G1/1800
FVH (80°-90°)	19.2	0.5			G1/100
BL (0°-30°)	117.5	3.0	B1/500		
BM (30°-60°)	221.6	5.8	B1/1000		
BH (60°-80°)	152.9	4.0	B1/500		G1/500
BVH (80°-90°)	0.9	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°	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7
2.5°	463.6	463.6	466.2	464.9	464.9	462.3	458.3	459.6	458.3	457.0	453.0
5°	455.6	457.0	458.3	460.9	466.2	468.9	468.9	470.2	470.2	468.9	463.6
7.5°	451.7	454.3	457.0	459.6	466.2	470.2	476.8	484.8	484.8	486.1	480.8
10°	466.2	468.9	472.9	476.8	483.5	490.1	495.4	504.7	504.7	507.3	506.0
12.5°	496.7	496.7	498.0	500.7	510.0	517.9	527.2	535.1	536.4	537.8	533.8
15°	533.8	533.8	535.1	535.1	540.4	552.3	569.6	577.5	576.2	574.9	566.9
17.5°	576.2	576.2	576.2	577.5	580.2	586.8	606.6	622.5	621.2	619.9	604.0
20°	615.9	618.6	621.2	622.5	625.2	630.5	651.7	670.2	674.2	668.9	641.1
22.5°	661.0	662.3	663.6	667.6	674.2	676.8	698.0	725.9	729.8	723.2	686.1
25°	706.0	708.6	712.6	717.9	724.5	737.8	752.3	789.4	793.4	785.5	735.1
27.5°	805.3	804.0	792.1	782.8	784.1	793.4	813.3	853.0	857.0	849.0	784.1
30°	974.9	959.0	936.5	895.4	855.7	859.6	887.5	925.9	932.5	921.9	838.4
32.5°	1215.9	1200.0	1144.4	1054.3	966.9	937.8	973.5	1010.6	1018.6	1006.7	902.0
35°	1450.4	1446.4	1393.4	1284.8	1136.5	1055.7	1064.9	1112.6	1115.3	1100.7	981.5
37.5°	1740.5	1725.9	1653.0	1531.2	1356.3	1212.0	1185.5	1230.5	1237.1	1219.9	1078.2
40°	1932.5	1927.2	1883.5	1797.4	1609.3	1427.9	1332.5	1376.2	1374.9	1349.7	1189.5
42.5°	2043.8	2046.4	2043.8	2002.7	1895.4	1687.5	1527.2	1529.9	1533.8	1507.3	1317.9
45°	2119.3	2119.3	2123.3	2156.4	2115.3	1997.4	1764.3	1704.7	1710.0	1668.9	1451.7
47.5°	2118.0	2125.9	2147.1	2223.9	2279.6	2286.2	2061.0	1908.7	1906.0	1843.8	1589.5
50°	1974.9	1969.6	2057.0	2229.2	2396.1	2524.6	2341.8	2124.6	2102.1	2025.2	1732.5
52.5°	1653.0	1670.3	1816.0	2069.0	2423.9	2686.2	2584.2	2360.4	2331.2	2205.4	1858.4
55°	1372.2	1390.8	1532.5	1780.2	2272.9	2743.2	2747.1	2610.7	2552.4	2361.7	1988.2
57.5°	1030.5	1066.3	1275.5	1508.7	1941.8	2601.4	2805.4	2850.4	2786.9	2512.7	2094.1
60°	658.3	679.5	913.9	1201.4	1573.6	2230.6	2793.5	2989.5	2955.1	2650.4	2182.9
62.5°	430.5	442.4	604.0	904.7	1198.7	1680.9	2651.8	3045.2	3045.2	2743.2	2249.1
64°	324.5	327.2	442.4	735.1	1000.0	1310.0	2484.9	3027.9	3059.7	2798.8	2262.3
65°	257.0	258.3	345.7	610.6	898.0	1074.2	2339.2	2990.8	3042.5	2820.0	2270.3
67.5°	180.1	184.1	223.8	352.3	643.7	619.9	1733.8	2816.0	2879.6	2826.6	2259.7
70°	156.3	161.6	188.1	230.5	459.6	360.3	921.9	2400.1	2475.6	2633.2	2103.4
72.5°	119.2	125.8	157.6	194.7	323.2	243.7	356.3	1704.7	1823.9	2035.8	1736.5
75°	86.1	88.7	116.6	158.9	226.5	188.1	153.6	879.5	1000.0	1201.4	1079.5
77.5°	54.3	58.3	79.5	119.2	202.7	143.1	91.4	320.5	404.0	523.2	471.5
80°	31.8	33.1	47.7	82.1	136.4	106.0	58.3	113.9	137.8	194.7	125.8
82.5°	18.5	19.9	30.5	55.6	88.7	82.1	37.1	58.3	64.9	74.2	26.5
85°	6.6	6.6	21.2	33.1	47.7	41.1	21.2	30.5	33.1	41.1	7.9
87.5°	1.3	1.3	10.6	17.2	17.2	6.6	10.6	13.2	15.9	22.5	2.6
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°	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7
2.5°	451.7	447.7	443.7	438.4	434.5	426.5	422.5	417.2	415.9	413.3	411.9
5°	462.3	455.6	446.4	433.1	425.2	413.3	405.3	397.4	396.0	393.4	392.1
7.5°	476.8	470.2	458.3	443.7	430.5	418.6	409.3	397.4	385.4	376.2	376.2
10°	500.7	492.7	476.8	463.6	447.7	422.5	378.8	339.1	313.9	298.0	292.7
12.5°	529.8	519.2	502.0	486.1	455.6	376.2	308.6	257.0	214.6	194.7	190.7
15°	560.3	551.0	533.8	510.0	418.6	313.9	225.2	145.7	104.6	86.1	88.7
17.5°	593.4	580.2	560.3	512.6	368.2	234.4	120.5	74.2	63.6	60.9	60.9
20°	627.8	610.6	590.8	483.5	303.3	135.1	68.9	55.6	51.7	47.7	49.0
22.5°	664.9	643.7	613.3	439.8	217.2	72.9	53.0	45.0	39.7	38.4	38.4
25°	704.7	674.2	635.8	389.4	125.8	55.6	43.7	35.8	31.8	30.5	29.1
27.5°	747.0	708.6	641.1	323.2	71.5	46.4	34.4	27.8	23.8	22.5	22.5
30°	785.5	743.1	629.2	239.7	54.3	38.4	27.8	21.2	18.5	18.5	18.5
32.5°	837.1	781.5	592.1	149.7	43.7	30.5	21.2	17.2	14.6	14.6	14.6
35°	904.7	838.4	555.0	79.5	35.8	25.2	17.2	13.2	11.9	11.9	11.9
37.5°	997.4	913.9	521.9	50.3	29.1	19.9	13.2	10.6	9.3	9.3	9.3
40°	1092.8	1004.0	475.5	38.4	23.8	15.9	10.6	7.9	6.6	6.6	7.9
42.5°	1212.0	1108.7	422.5	33.1	19.9	13.2	7.9	5.3	4.0	5.3	5.3
45°	1332.5	1218.6	348.4	27.8	17.2	10.6	5.3	2.6	2.6	4.0	4.0
47.5°	1457.0	1335.2	270.2	23.8	14.6	7.9	4.0	1.3	1.3	2.6	2.6
50°	1585.5	1450.4	201.3	21.2	11.9	6.6	2.6	1.3	0.0	1.3	1.3
52.5°	1714.0	1561.7	156.3	18.5	10.6	5.3	1.3	0.0	0.0	0.0	1.3
55°	1833.2	1662.3	124.5	15.9	9.3	4.0	1.3	0.0	0.0	0.0	0.0
57.5°	1933.9	1736.5	99.3	14.6	7.9	2.6	1.3	0.0	0.0	0.0	0.0
60°	2029.2	1794.8	76.8	11.9	6.6	2.6	1.3	0.0	0.0	0.0	0.0
62.5°	2096.8	1817.3	62.3	10.6	5.3	2.6	0.0	0.0	0.0	0.0	0.0
64°	2125.9	1819.9	54.3	9.3	5.3	2.6	1.3	0.0	0.0	0.0	0.0
65°	2143.1	1812.0	50.3	9.3	5.3	2.6	1.3	0.0	0.0	0.0	0.0
67.5°	2147.1	1768.3	38.4	7.9	4.0	1.3	1.3	0.0	0.0	0.0	0.0
70°	2030.5	1616.0	27.8	5.3	2.6	1.3	0.0	0.0	0.0	0.0	0.0
72.5°	1696.8	1234.5	18.5	4.0	2.6	1.3	0.0	0.0	0.0	0.0	0.0
75°	1059.6	533.8	10.6	4.0	1.3	1.3	0.0	0.0	0.0	0.0	0.0
77.5°	438.4	161.6	6.6	2.6	1.3	1.3	0.0	0.0	0.0	0.0	0.0
80°	100.7	38.4	2.6	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	23.8	6.6	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0
85°	5.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	1.3	1.3	1.3	1.3	1.3	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)