

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: P594544

Luminaire Tested: **ISS-PA1B-730-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594544
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-730-U-T2U-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 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: 3509 lumens
Efficiency: N/A
Efficacy: 96.4 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

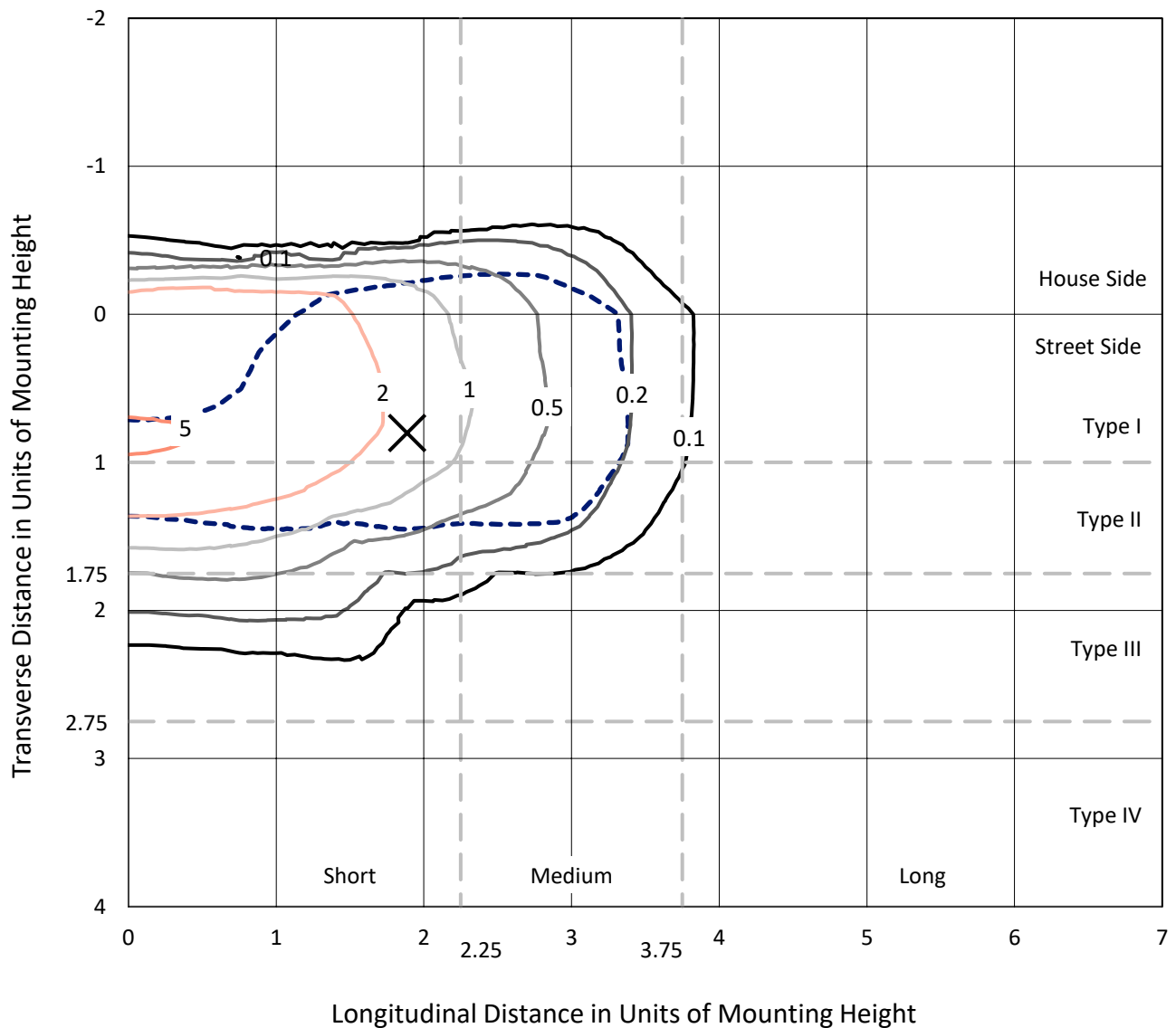
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

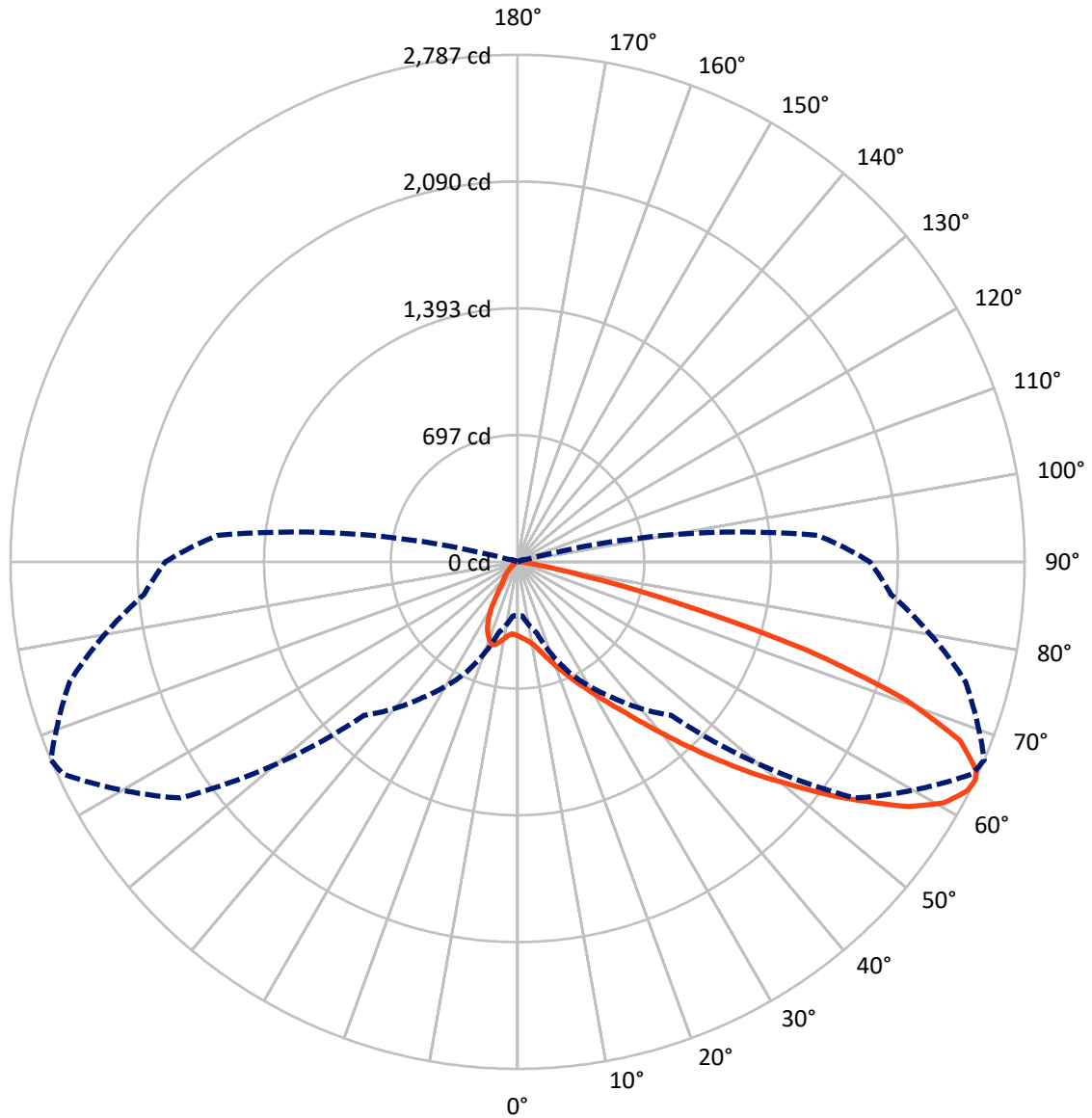
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.4 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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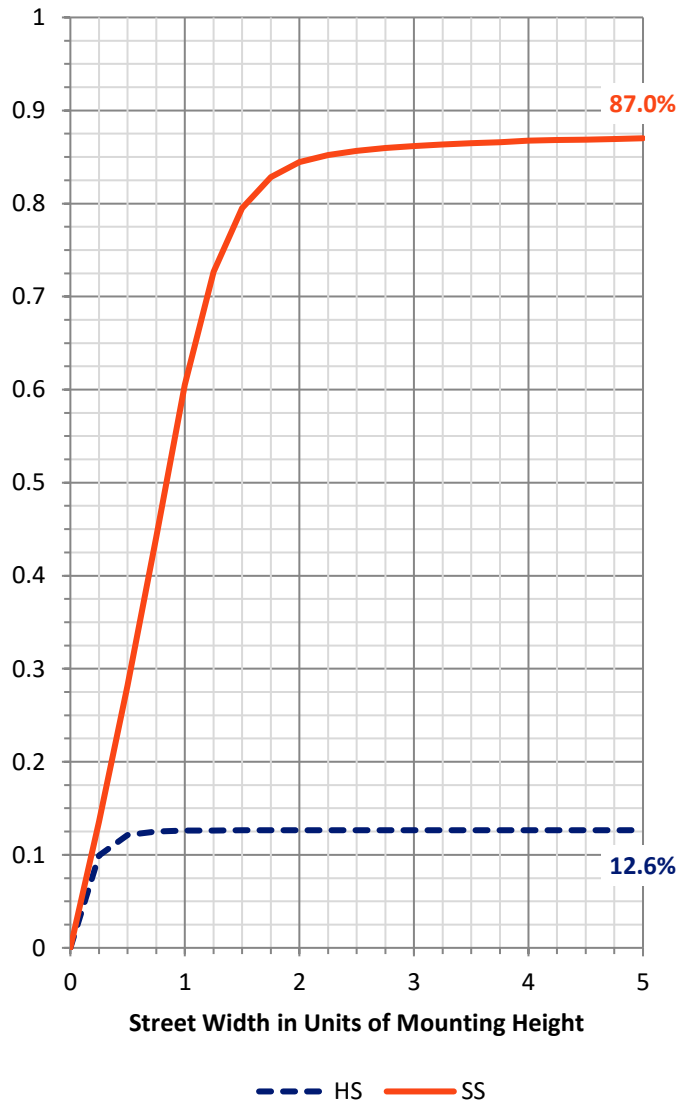
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	448.9	0.0	448.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	3060.1	0.0	3060.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	3509.0	0.0	3509.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.7	1.1
10°-20°	114.2	3.3
20°-30°	207.1	5.9
30°-40°	396.8	11.3
40°-50°	731.3	20.8
50°-60°	944.5	26.9
60°-70°	773.7	22.0
70°-80°	284.4	8.1
80°-90°	18.3	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°	3509.0	100.0
0°-180°	3509.0	100.0

Coefficient of Utilization



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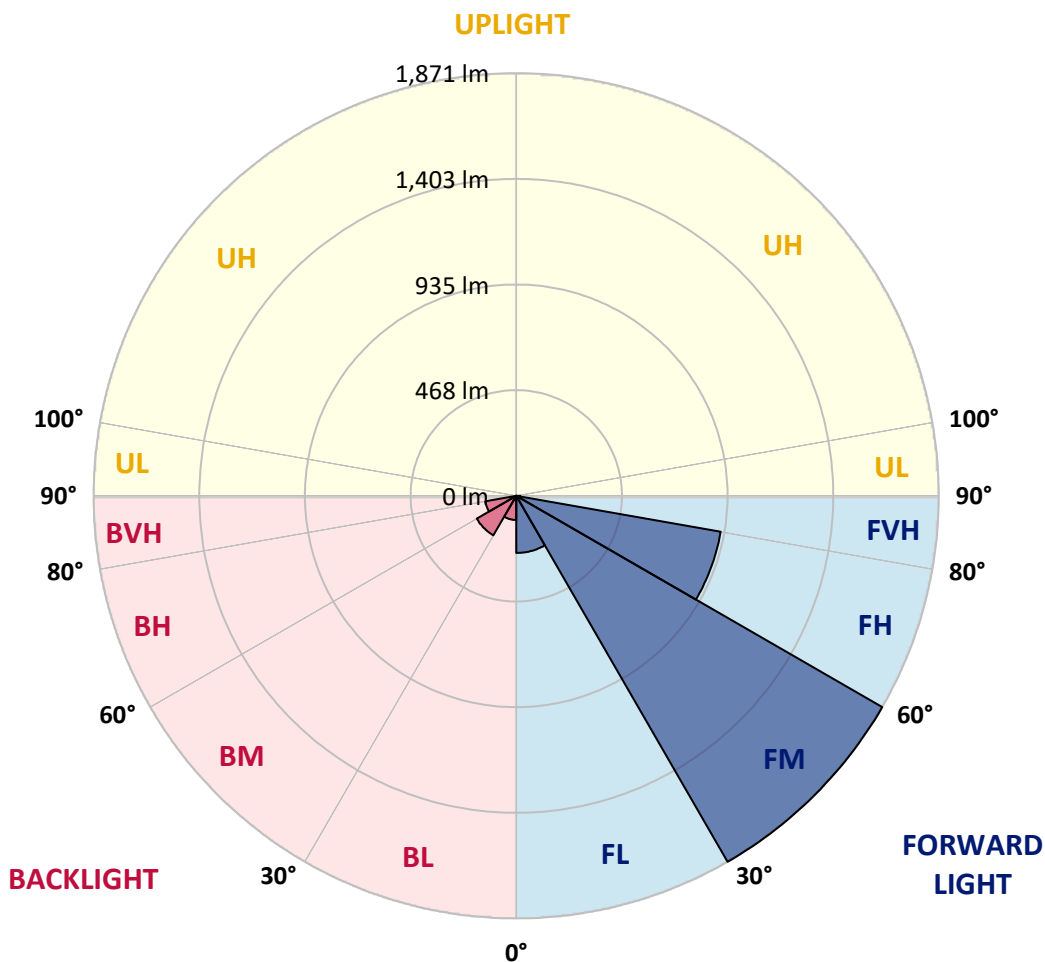
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	253.0	7.2			
FM (30°-60°)	1870.8	53.3			
FH (60°-80°)	918.8	26.2			G1/1800
FVH (80°-90°)	17.5	0.5			G1/100
BL (0°-30°)	107.0	3.0	B0/110		
BM (30°-60°)	201.8	5.8	B0/220		
BH (60°-80°)	139.3	4.0	B1/500		G1/500
BVH (80°-90°)	0.8	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°	407.7	407.7	407.7	407.7	407.7	407.7	407.7	407.7	407.7	407.7	407.7
2.5°	422.2	422.2	424.6	423.4	423.4	421.0	417.4	418.6	417.4	416.2	412.6
5°	415.0	416.2	417.4	419.8	424.6	427.0	427.0	428.2	428.2	427.0	422.2
7.5°	411.3	413.8	416.2	418.6	424.6	428.2	434.3	441.5	441.5	442.7	437.9
10°	424.6	427.0	430.6	434.3	440.3	446.3	451.2	459.6	459.6	462.0	460.8
12.5°	452.4	452.4	453.6	456.0	464.4	471.7	480.1	487.3	488.6	489.8	486.1
15°	486.1	486.1	487.3	487.3	492.2	503.0	518.7	525.9	524.7	523.5	516.3
17.5°	524.7	524.7	524.7	525.9	528.4	534.4	552.5	567.0	565.8	564.5	550.1
20°	560.9	563.3	565.8	567.0	569.4	574.2	593.5	610.4	614.0	609.2	583.8
22.5°	601.9	603.1	604.4	608.0	614.0	616.4	635.7	661.1	664.7	658.6	624.9
25°	643.0	645.4	649.0	653.8	659.8	671.9	685.2	719.0	722.6	715.3	669.5
27.5°	733.4	732.2	721.4	712.9	714.1	722.6	740.7	776.9	780.5	773.2	714.1
30°	887.8	873.4	852.9	815.5	779.3	782.9	808.2	843.2	849.2	839.6	763.6
32.5°	1107.4	1092.9	1042.2	960.2	880.6	854.1	886.6	920.4	927.6	916.8	821.5
35°	1320.9	1317.3	1269.0	1170.1	1035.0	961.4	969.9	1013.3	1015.7	1002.4	893.9
37.5°	1585.1	1571.8	1505.5	1394.5	1235.2	1103.8	1079.6	1120.7	1126.7	1111.0	981.9
40°	1760.0	1755.2	1715.4	1636.9	1465.7	1300.4	1213.5	1253.3	1252.1	1229.2	1083.3
42.5°	1861.3	1863.7	1861.3	1823.9	1726.2	1536.8	1390.9	1393.3	1396.9	1372.8	1200.3
45°	1930.1	1930.1	1933.7	1963.9	1926.5	1819.1	1606.8	1552.5	1557.3	1519.9	1322.1
47.5°	1928.9	1936.1	1955.4	2025.4	2076.0	2082.1	1877.0	1738.3	1735.9	1679.2	1447.6
50°	1798.6	1793.8	1873.4	2030.2	2182.2	2299.2	2132.7	1934.9	1914.4	1844.4	1577.8
52.5°	1505.5	1521.1	1653.8	1884.2	2207.5	2446.4	2353.5	2149.6	2123.1	2008.5	1692.4
55°	1249.7	1266.6	1395.7	1621.3	2070.0	2498.2	2501.9	2377.6	2324.5	2150.8	1810.7
57.5°	938.5	971.1	1161.7	1374.0	1768.4	2369.2	2554.9	2596.0	2538.0	2288.3	1907.2
60°	599.5	618.8	832.3	1094.1	1433.1	2031.4	2544.1	2722.6	2691.2	2413.8	1988.0
62.5°	392.0	402.9	550.1	823.9	1091.7	1530.8	2415.0	2773.3	2773.3	2498.2	2048.3
64°	295.5	298.0	402.9	669.5	910.8	1193.0	2263.0	2757.6	2786.5	2548.9	2060.4
65°	234.0	235.2	314.8	556.1	817.9	978.3	2130.3	2723.8	2770.9	2568.2	2067.6
67.5°	164.1	167.7	203.9	320.9	586.3	564.5	1579.0	2564.6	2622.5	2574.2	2057.9
70°	142.3	147.2	171.3	209.9	418.6	328.1	839.6	2185.8	2254.6	2398.1	1915.6
72.5°	108.6	114.6	143.5	177.3	294.3	222.0	324.5	1552.5	1661.1	1854.1	1581.5
75°	78.4	80.8	106.2	144.8	206.3	171.3	139.9	801.0	910.8	1094.1	983.1
77.5°	49.5	53.1	72.4	108.6	184.6	130.3	83.2	291.9	367.9	476.5	429.4
80°	29.0	30.2	43.4	74.8	124.2	96.5	53.1	103.7	125.5	177.3	114.6
82.5°	16.9	18.1	27.7	50.7	80.8	74.8	33.8	53.1	59.1	67.6	24.1
85°	6.0	6.0	19.3	30.2	43.4	37.4	19.3	27.7	30.2	37.4	7.2
87.5°	1.2	1.2	9.7	15.7	15.7	6.0	9.7	12.1	14.5	20.5	2.4
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°	407.7	407.7	407.7	407.7	407.7	407.7	407.7	407.7	407.7	407.7	407.7
2.5°	411.3	407.7	404.1	399.3	395.7	388.4	384.8	380.0	378.8	376.4	375.2
5°	421.0	415.0	406.5	394.5	387.2	376.4	369.1	361.9	360.7	358.3	357.1
7.5°	434.3	428.2	417.4	404.1	392.0	381.2	372.7	361.9	351.0	342.6	342.6
10°	456.0	448.7	434.3	422.2	407.7	384.8	345.0	308.8	285.9	271.4	266.6
12.5°	482.5	472.9	457.2	442.7	415.0	342.6	281.1	234.0	195.4	177.3	173.7
15°	510.3	501.8	486.1	464.4	381.2	285.9	205.1	132.7	95.3	78.4	80.8
17.5°	540.4	528.4	510.3	466.8	335.4	213.5	109.8	67.6	57.9	55.5	55.5
20°	571.8	556.1	538.0	440.3	276.2	123.0	62.7	50.7	47.0	43.4	44.6
22.5°	605.6	586.3	558.5	400.5	197.8	66.3	48.3	41.0	36.2	35.0	35.0
25°	641.8	614.0	579.0	354.7	114.6	50.7	39.8	32.6	29.0	27.7	26.5
27.5°	680.4	645.4	583.8	294.3	65.1	42.2	31.4	25.3	21.7	20.5	20.5
30°	715.3	676.7	573.0	218.3	49.5	35.0	25.3	19.3	16.9	16.9	16.9
32.5°	762.4	711.7	539.2	136.3	39.8	27.7	19.3	15.7	13.3	13.3	13.3
35°	823.9	763.6	505.4	72.4	32.6	22.9	15.7	12.1	10.9	10.9	10.9
37.5°	908.3	832.3	475.3	45.8	26.5	18.1	12.1	9.7	8.4	8.4	8.4
40°	995.2	914.4	433.1	35.0	21.7	14.5	9.7	7.2	6.0	6.0	7.2
42.5°	1103.8	1009.7	384.8	30.2	18.1	12.1	7.2	4.8	3.6	4.8	4.8
45°	1213.5	1109.8	317.3	25.3	15.7	9.7	4.8	2.4	2.4	3.6	3.6
47.5°	1326.9	1215.9	246.1	21.7	13.3	7.2	3.6	1.2	1.2	2.4	2.4
50°	1443.9	1320.9	183.4	19.3	10.9	6.0	2.4	1.2	0.0	1.2	1.2
52.5°	1560.9	1422.2	142.3	16.9	9.7	4.8	1.2	0.0	0.0	0.0	1.2
55°	1669.5	1513.9	113.4	14.5	8.4	3.6	1.2	0.0	0.0	0.0	0.0
57.5°	1761.2	1581.5	90.5	13.3	7.2	2.4	1.2	0.0	0.0	0.0	0.0
60°	1848.0	1634.5	70.0	10.9	6.0	2.4	1.2	0.0	0.0	0.0	0.0
62.5°	1909.6	1655.0	56.7	9.7	4.8	2.4	0.0	0.0	0.0	0.0	0.0
64°	1936.1	1657.5	49.5	8.4	4.8	2.4	1.2	0.0	0.0	0.0	0.0
65°	1951.8	1650.2	45.8	8.4	4.8	2.4	1.2	0.0	0.0	0.0	0.0
67.5°	1955.4	1610.4	35.0	7.2	3.6	1.2	1.2	0.0	0.0	0.0	0.0
70°	1849.3	1471.7	25.3	4.8	2.4	1.2	0.0	0.0	0.0	0.0	0.0
72.5°	1545.3	1124.3	16.9	3.6	2.4	1.2	0.0	0.0	0.0	0.0	0.0
75°	965.0	486.1	9.7	3.6	1.2	1.2	0.0	0.0	0.0	0.0	0.0
77.5°	399.3	147.2	6.0	2.4	1.2	1.2	0.0	0.0	0.0	0.0	0.0
80°	91.7	35.0	2.4	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	21.7	6.0	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
85°	4.8	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	1.2	1.2	1.2	1.2	1.2	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)