

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: P594722

Luminaire Tested: **ISS-PA1D-740-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594722
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1D-740-U-T2R-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7204 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

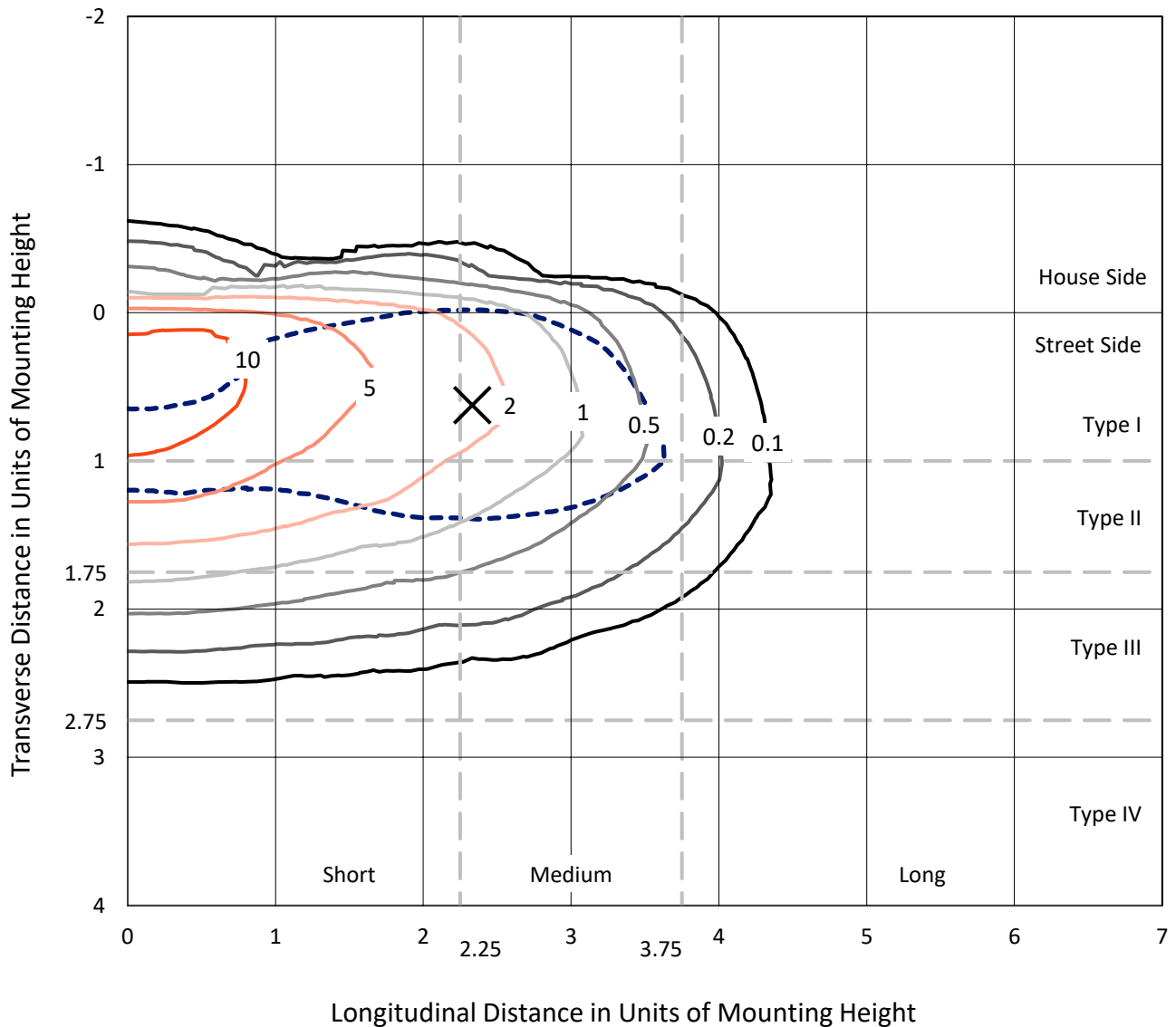
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

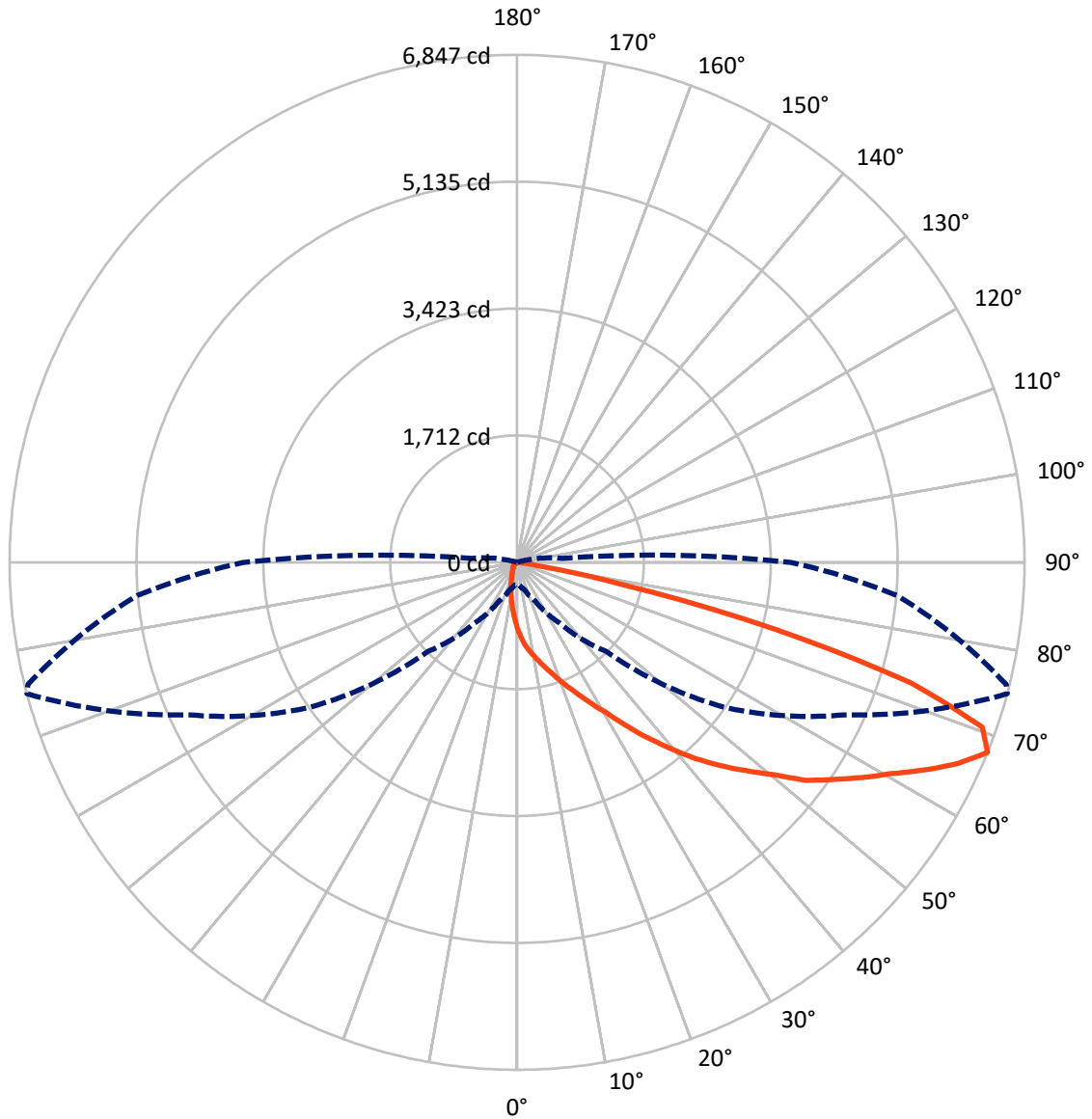
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 14.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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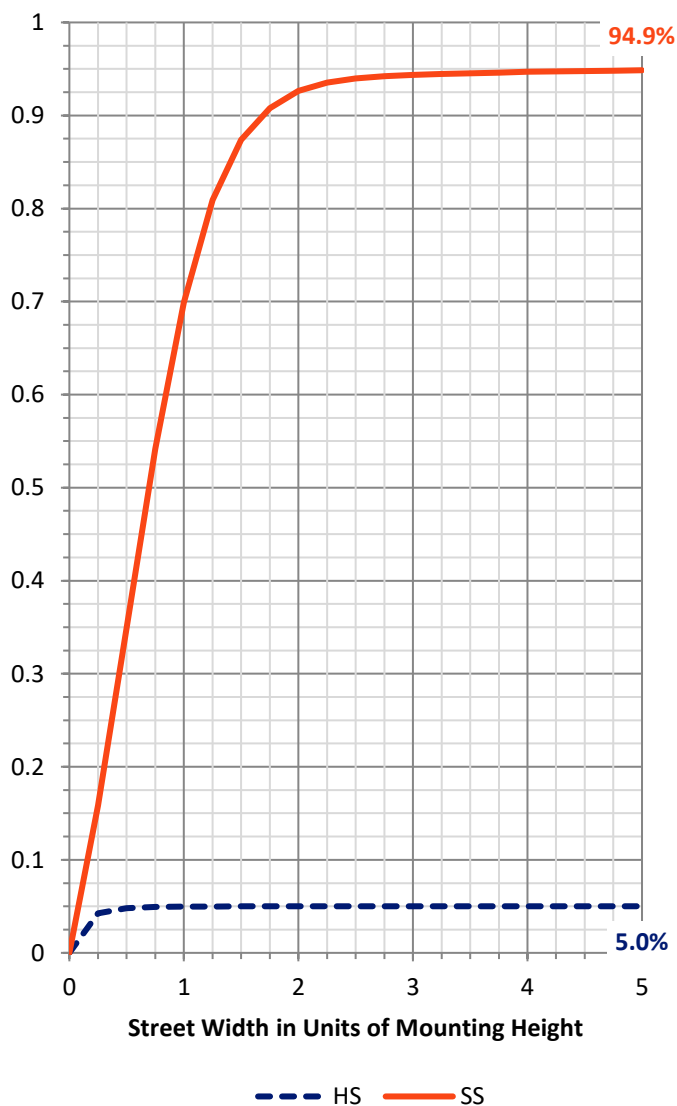
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	363.2	0.0	363.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	6840.8	0.0	6840.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	7204.0	0.0	7204.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	1.1
10°-20°	260.6	3.6
20°-30°	523.8	7.3
30°-40°	990.8	13.8
40°-50°	1482.2	20.6
50°-60°	1711.3	23.8
60°-70°	1516.9	21.1
70°-80°	613.1	8.5
80°-90°	24.5	0.3
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°	7204.0	100.0
0°-180°	7204.0	100.0

Coefficient of Utilization



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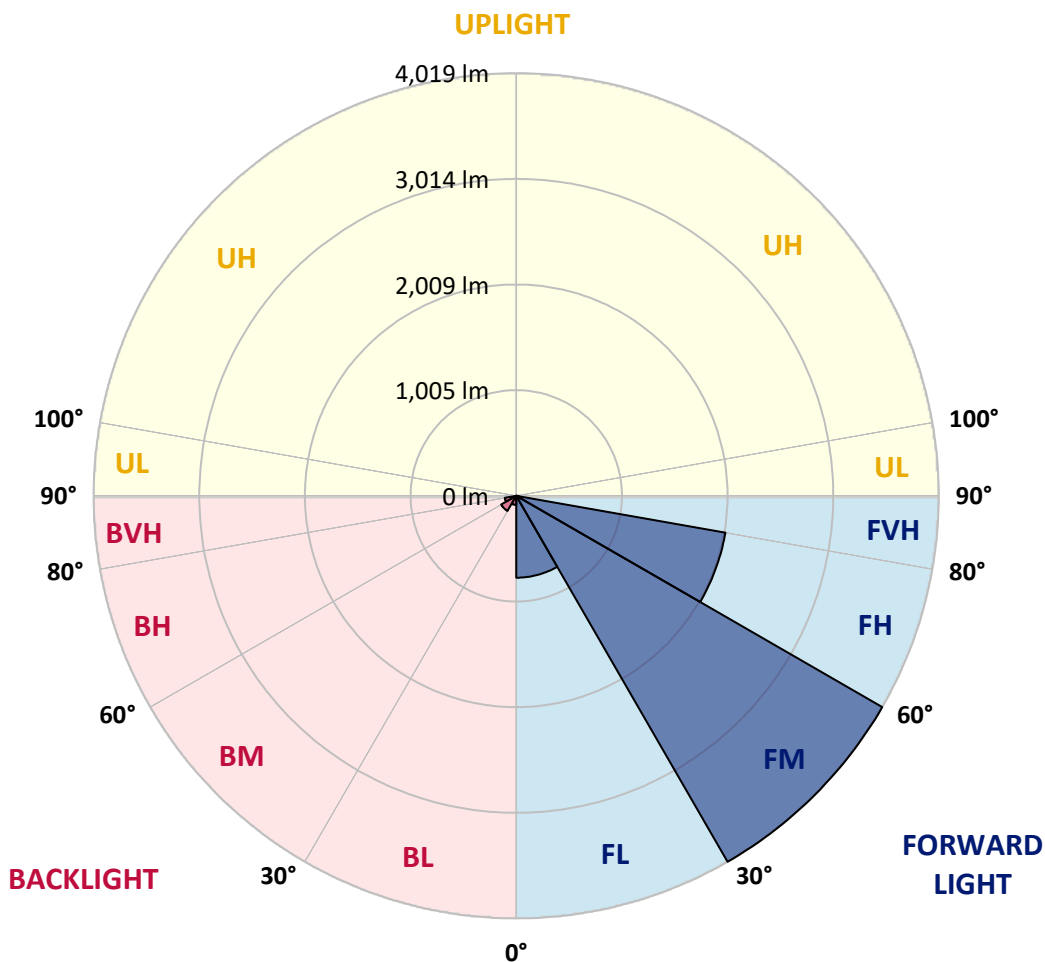
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	778.8	10.8			
FM (30°-60°)	4018.7	55.8			
FH (60°-80°)	2019.9	28.0			G2/5000
FVH (80°-90°)	23.4	0.3			G1/100
BL (0°-30°)	86.3	1.2	B0/110		
BM (30°-60°)	165.7	2.3	B0/220		
BH (60°-80°)	110.1	1.5	B1/500		G1/500
BVH (80°-90°)	1.1	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	895.3	895.3	895.3	895.3	895.3	895.3	895.3	895.3	895.3	895.3	895.3
2.5°	1245.6	1249.9	1241.3	1221.8	1204.5	1163.4	1131.0	1072.6	1009.9	1009.9	934.2
5°	1392.7	1388.3	1384.0	1368.9	1355.9	1321.3	1278.1	1215.3	1118.0	1109.4	984.0
7.5°	1464.0	1459.7	1451.1	1444.6	1444.6	1420.8	1379.7	1314.8	1206.7	1198.0	1029.4
10°	1548.4	1539.7	1539.7	1522.4	1518.1	1490.0	1468.4	1412.1	1293.2	1282.4	1081.3
12.5°	1647.8	1639.2	1641.4	1626.2	1619.7	1589.5	1559.2	1505.1	1386.2	1375.4	1141.8
15°	1704.1	1699.7	1712.7	1714.9	1719.2	1693.3	1665.1	1608.9	1490.0	1474.8	1213.2
17.5°	1736.5	1736.5	1751.6	1779.8	1812.2	1797.1	1775.4	1730.0	1595.9	1587.3	1288.9
20°	1799.2	1792.7	1818.7	1844.6	1885.7	1898.7	1892.2	1857.6	1723.5	1697.6	1371.0
22.5°	1903.0	1894.4	1918.2	1950.6	2000.3	2004.7	2009.0	1991.7	1853.3	1827.3	1457.5
25°	2147.4	2125.8	2104.1	2099.8	2119.3	2136.6	2123.6	2136.6	2000.3	1976.6	1550.5
27.5°	2623.1	2586.4	2482.6	2368.0	2288.0	2303.1	2262.0	2285.8	2169.0	2138.7	1637.0
30°	3079.4	3042.7	2958.3	2755.1	2571.2	2489.1	2428.5	2419.9	2342.0	2307.4	1736.5
32.5°	3397.3	3373.5	3317.3	3181.1	2951.9	2742.1	2625.3	2584.2	2573.4	2519.3	1864.1
35°	3613.6	3592.0	3553.0	3442.7	3274.1	3040.5	2839.4	2748.6	2830.8	2765.9	2009.0
37.5°	3743.3	3728.2	3685.0	3609.3	3518.4	3364.9	3105.4	2960.5	3090.3	3029.7	2195.0
40°	3838.5	3799.6	3769.3	3710.9	3680.6	3630.9	3408.1	3181.1	3371.4	3308.7	2378.8
42.5°	3847.1	3829.8	3806.1	3771.5	3775.8	3808.2	3730.4	3436.3	3654.7	3596.3	2573.4
45°	3845.0	3827.7	3810.4	3775.8	3797.4	3918.5	3989.9	3704.4	3931.5	3870.9	2778.9
47.5°	3782.3	3769.3	3773.6	3773.6	3801.7	3966.1	4191.0	3976.9	4208.3	4149.9	3027.5
50°	3561.7	3574.7	3661.2	3706.6	3756.3	3968.2	4331.5	4262.3	4506.7	4465.6	3267.6
52.5°	2863.2	2936.7	3287.0	3527.1	3672.0	3925.0	4422.4	4562.9	4885.2	4822.4	3540.1
55°	2188.5	2192.8	2530.2	3088.1	3505.5	3847.1	4474.3	4766.2	5172.8	5138.2	3780.1
57.5°	1775.4	1773.3	1939.8	2441.5	3073.0	3723.9	4487.2	4915.4	5477.7	5412.8	4056.9
60°	1451.1	1442.4	1541.9	1851.1	2510.7	3434.1	4439.7	5036.5	5791.3	5767.5	4346.7
62.5°	1048.8	1057.5	1189.4	1429.4	1935.5	2900.0	4338.0	5073.3	6169.7	6145.9	4671.1
65°	603.3	629.3	774.2	1029.4	1483.5	2268.5	4048.3	5045.2	6539.5	6537.3	4971.7
67.5°	302.8	304.9	382.8	575.2	996.9	1697.6	3408.1	4867.9	6846.6	6799.0	5144.7
70°	194.6	199.0	224.9	296.3	551.4	1176.4	2603.7	4366.1	6654.1	6636.8	4891.6
72.5°	149.2	153.5	175.2	194.6	287.6	668.2	1762.5	3393.0	5555.5	5508.0	3814.7
75°	116.8	118.9	140.6	157.9	192.5	313.6	884.5	2115.0	3579.0	3455.7	2171.2
77.5°	93.0	95.2	106.0	125.4	147.1	175.2	261.7	951.5	1455.4	1299.7	705.0
80°	60.6	62.7	80.0	97.3	125.4	114.6	101.6	274.6	311.4	281.1	125.4
82.5°	34.6	36.8	54.1	77.9	95.2	64.9	58.4	80.0	73.5	71.4	38.9
85°	10.8	10.8	36.8	54.1	43.3	19.5	36.8	28.1	23.8	21.6	13.0
87.5°	2.2	2.2	17.3	19.5	6.5	2.2	4.3	6.5	8.7	10.8	6.5
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°	895.3	895.3	895.3	895.3	895.3	895.3	895.3	895.3	895.3	895.3	895.3
2.5°	897.4	854.2	774.2	705.0	637.9	579.6	538.5	501.7	475.8	469.3	458.5
5°	903.9	819.6	666.1	536.3	423.9	333.0	281.1	246.5	229.2	218.4	218.4
7.5°	910.4	785.0	564.4	391.4	268.2	203.3	170.8	155.7	149.2	147.1	144.9
10°	923.4	759.0	477.9	281.1	183.8	153.5	140.6	134.1	129.8	127.6	127.6
12.5°	945.0	737.4	397.9	207.6	151.4	136.2	127.6	118.9	114.6	112.5	112.5
15°	973.1	722.3	328.7	166.5	138.4	123.3	112.5	103.8	97.3	95.2	95.2
17.5°	1012.1	711.5	270.3	147.1	127.6	110.3	97.3	88.7	82.2	80.0	80.0
20°	1051.0	711.5	222.7	136.2	116.8	97.3	84.3	73.5	67.0	64.9	64.9
22.5°	1102.9	709.3	186.0	125.4	103.8	84.3	71.4	58.4	54.1	51.9	51.9
25°	1146.1	709.3	160.0	114.6	90.8	73.5	58.4	47.6	43.3	41.1	41.1
27.5°	1198.0	702.8	136.2	101.6	77.9	60.6	47.6	38.9	34.6	32.4	32.4
30°	1243.5	694.2	121.1	90.8	67.0	49.7	38.9	30.3	28.1	28.1	28.1
32.5°	1319.1	687.7	108.1	77.9	56.2	41.1	30.3	23.8	21.6	21.6	21.6
35°	1410.0	687.7	99.5	67.0	47.6	34.6	23.8	19.5	17.3	17.3	17.3
37.5°	1528.9	694.2	88.7	58.4	38.9	28.1	19.5	15.1	13.0	13.0	13.0
40°	1654.3	709.3	80.0	51.9	34.6	21.6	15.1	10.8	8.7	10.8	10.8
42.5°	1803.5	724.4	71.4	45.4	28.1	17.3	10.8	6.5	4.3	6.5	6.5
45°	1950.6	739.6	67.0	38.9	23.8	13.0	6.5	4.3	2.2	4.3	4.3
47.5°	2132.3	776.3	62.7	34.6	19.5	10.8	4.3	2.2	0.0	2.2	2.2
50°	2342.0	817.4	56.2	28.1	15.1	8.7	4.3	0.0	0.0	0.0	0.0
52.5°	2543.1	852.0	49.7	23.8	13.0	6.5	2.2	0.0	0.0	0.0	0.0
55°	2744.2	873.7	43.3	19.5	10.8	6.5	2.2	0.0	0.0	0.0	0.0
57.5°	2960.5	886.6	38.9	17.3	8.7	4.3	2.2	0.0	0.0	0.0	0.0
60°	3200.5	886.6	32.4	15.1	6.5	4.3	2.2	0.0	0.0	0.0	0.0
62.5°	3466.5	860.7	30.3	13.0	6.5	4.3	2.2	0.0	0.0	0.0	0.0
65°	3682.8	767.7	26.0	10.8	6.5	4.3	2.2	0.0	0.0	0.0	0.0
67.5°	3691.4	607.7	23.8	8.7	6.5	4.3	2.2	0.0	0.0	0.0	0.0
70°	3291.4	415.2	19.5	6.5	4.3	4.3	2.2	0.0	0.0	0.0	0.0
72.5°	2463.1	222.7	17.3	6.5	4.3	2.2	2.2	0.0	0.0	0.0	0.0
75°	1327.8	86.5	10.8	6.5	4.3	2.2	2.2	0.0	0.0	0.0	0.0
77.5°	387.1	43.3	6.5	4.3	4.3	2.2	2.2	0.0	0.0	0.0	0.0
80°	71.4	21.6	4.3	4.3	4.3	2.2	0.0	0.0	0.0	0.0	0.0
82.5°	19.5	8.7	2.2	2.2	2.2	2.2	0.0	0.0	0.0	0.0	0.0
85°	8.7	4.3	2.2	2.2	2.2	2.2	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	2.2	2.2	2.2	2.2	2.2	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)