

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: P594371

Luminaire Tested: **ISC-PA1F-730-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594371
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: ISC-PA1F-730-U-T2R-HSS
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
(1) 70 CRI, 3000K, 1200mA 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: 8828.1 lumens
Efficiency: N/A
Efficacy: 93.5 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): 94.4
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

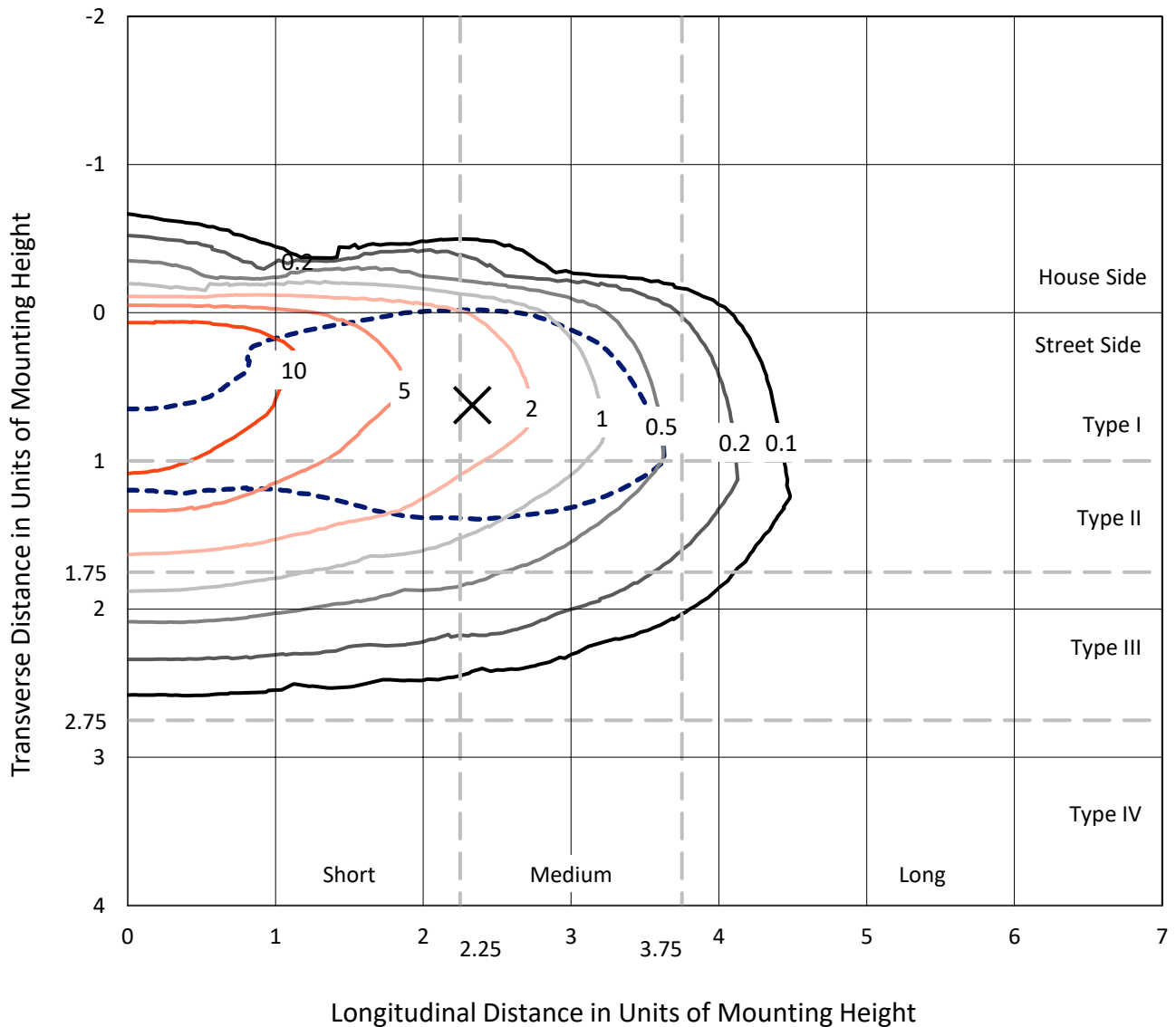




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Iso-Footcandle Lines of Horizontal Illumination

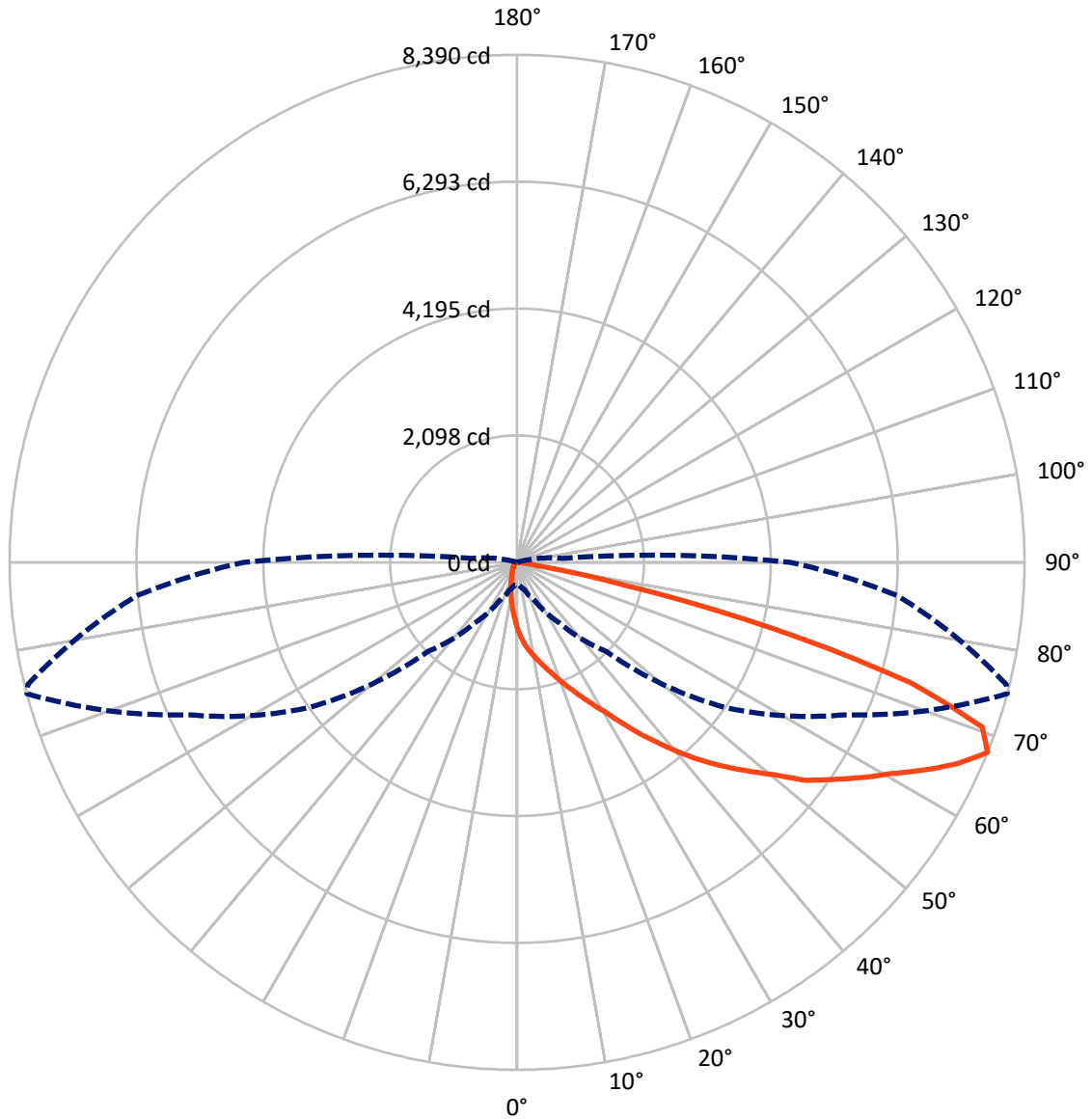
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 17.3 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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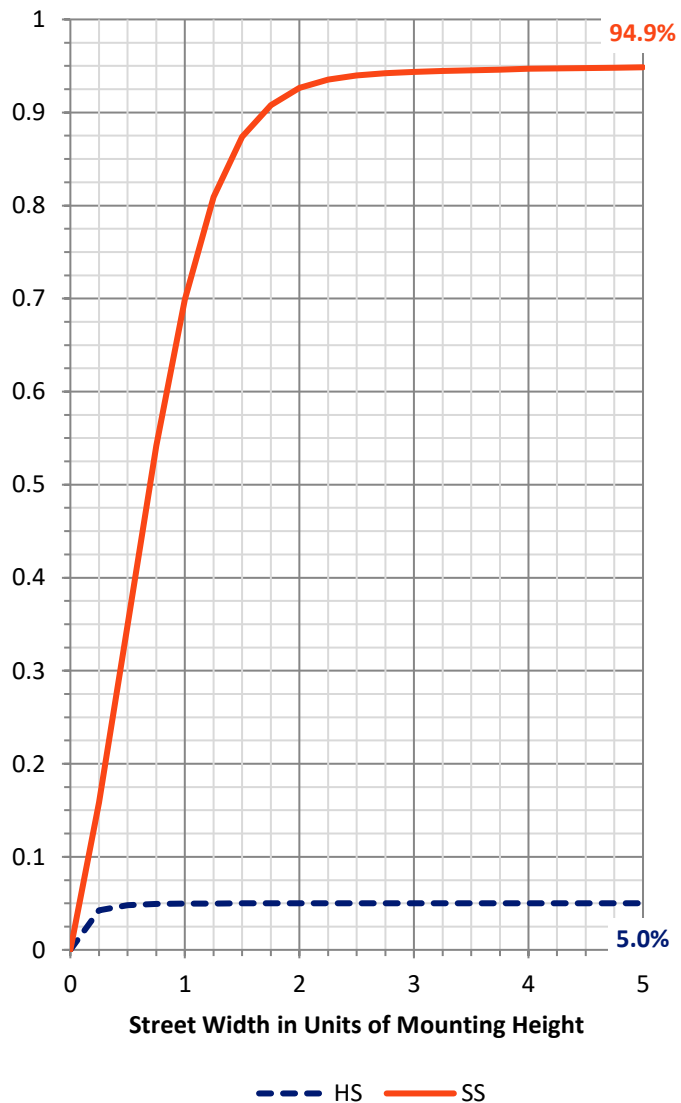
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	445.1	0.0	445.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	8383.0	0.0	8383.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	8828.1	0.0	8828.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.0	1.1
10°-20°	319.3	3.6
20°-30°	641.9	7.3
30°-40°	1214.2	13.8
40°-50°	1816.4	20.6
50°-60°	2097.1	23.8
60°-70°	1858.9	21.1
70°-80°	751.4	8.5
80°-90°	30.0	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°	8828.1	100.0
0°-180°	8828.1	100.0

Coefficient of Utilization

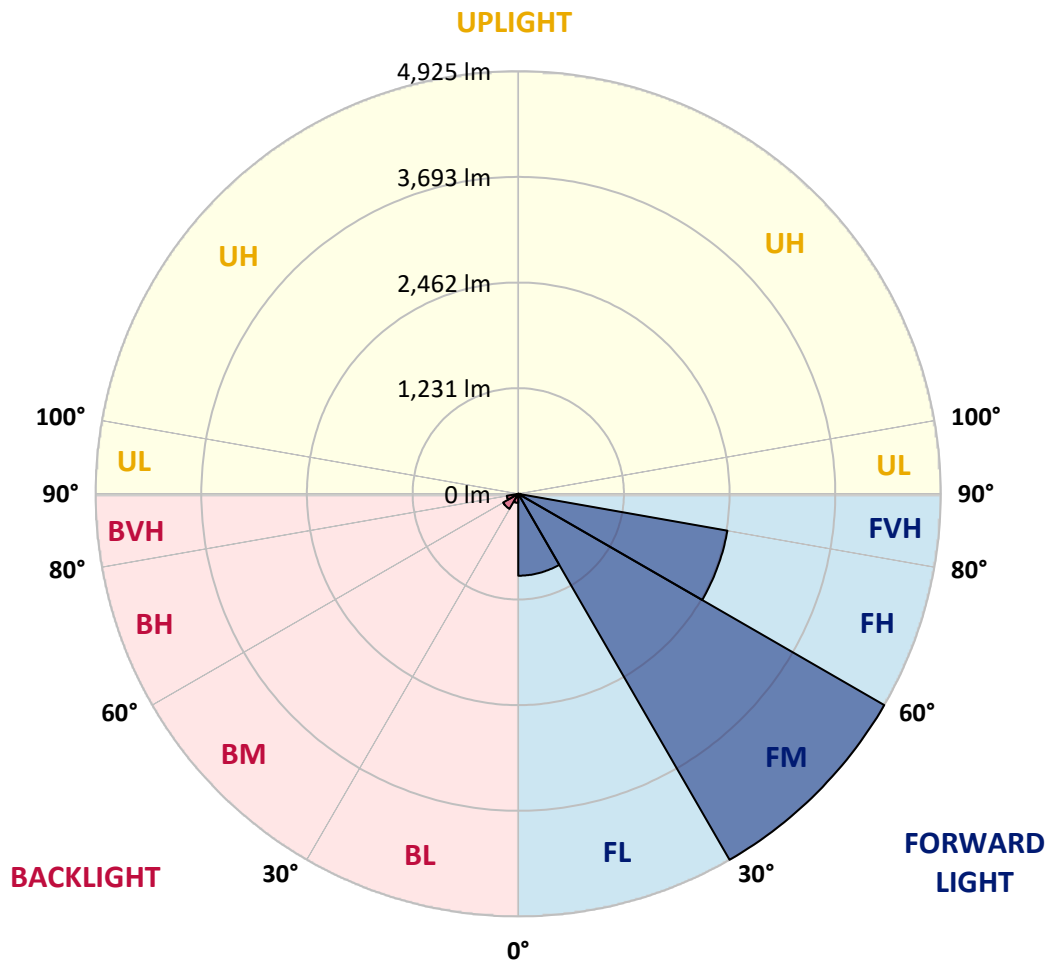


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	954.4	10.8			
FM (30°-60°)	4924.6	55.8			
FH (60°-80°)	2475.3	28.0			G2/5000
FVH (80°-90°)	28.7	0.3			G1/100
BL (0°-30°)	105.8	1.2	B0/110		
BM (30°-60°)	203.0	2.3	B0/220		
BH (60°-80°)	135.0	1.5	B1/500		G1/500
BVH (80°-90°)	1.3	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°	1097.1	1097.1	1097.1	1097.1	1097.1	1097.1	1097.1	1097.1	1097.1	1097.1	1097.1
2.5°	1526.4	1531.7	1521.1	1497.3	1476.1	1425.7	1386.0	1314.4	1237.6	1237.6	1144.8
5°	1706.6	1701.3	1696.0	1677.5	1661.6	1619.2	1566.2	1489.3	1370.1	1359.5	1205.8
7.5°	1794.1	1788.8	1778.2	1770.2	1770.2	1741.1	1690.7	1611.2	1478.7	1468.1	1261.4
10°	1897.4	1886.8	1886.8	1865.6	1860.3	1825.9	1799.4	1730.5	1584.7	1571.5	1325.0
12.5°	2019.3	2008.7	2011.4	1992.8	1984.9	1947.8	1910.7	1844.4	1698.7	1685.4	1399.2
15°	2088.2	2082.9	2098.8	2101.5	2106.8	2075.0	2040.5	1971.6	1825.9	1807.3	1486.7
17.5°	2128.0	2128.0	2146.5	2181.0	2220.7	2202.2	2175.7	2120.0	1955.7	1945.1	1579.4
20°	2204.8	2196.9	2228.7	2260.5	2310.8	2326.7	2318.8	2276.4	2112.1	2080.3	1680.1
22.5°	2332.0	2321.4	2350.6	2390.3	2451.3	2456.6	2461.9	2440.7	2271.1	2239.3	1786.1
25°	2631.5	2605.0	2578.5	2573.2	2597.0	2618.2	2602.3	2618.2	2451.3	2422.1	1900.1
27.5°	3214.5	3169.4	3042.2	2901.8	2803.7	2822.3	2771.9	2801.1	2658.0	2620.9	2006.1
30°	3773.6	3728.6	3625.2	3376.1	3150.9	3050.2	2976.0	2965.4	2870.0	2827.6	2128.0
32.5°	4163.2	4134.0	4065.1	3898.2	3617.3	3360.2	3217.1	3166.8	3153.5	3087.3	2284.3
35°	4428.2	4401.7	4354.0	4218.8	4012.1	3725.9	3479.5	3368.2	3468.9	3389.4	2461.9
37.5°	4587.2	4568.7	4515.6	4422.9	4311.6	4123.4	3805.4	3627.9	3786.9	3712.7	2689.8
40°	4703.8	4656.1	4619.0	4547.4	4510.3	4449.4	4176.4	3898.2	4131.4	4054.5	2915.0
42.5°	4714.4	4693.2	4664.1	4621.7	4627.0	4666.7	4571.3	4210.9	4478.5	4407.0	3153.5
45°	4711.8	4690.6	4669.4	4627.0	4653.5	4801.9	4889.3	4539.5	4817.8	4743.6	3405.3
47.5°	4634.9	4619.0	4624.3	4624.3	4658.8	4860.2	5135.8	4873.4	5157.0	5085.4	3710.0
50°	4364.6	4380.5	4486.5	4542.1	4603.1	4862.8	5308.0	5223.2	5522.7	5472.3	4004.2
52.5°	3508.6	3598.7	4028.0	4322.2	4499.7	4809.8	5419.3	5591.6	5986.4	5909.6	4338.1
55°	2681.8	2687.1	3100.5	3784.2	4295.7	4714.4	5482.9	5840.7	6338.9	6296.5	4632.3
57.5°	2175.7	2173.0	2377.1	2991.9	3765.7	4563.4	5498.8	6023.5	6712.5	6633.0	4971.5
60°	1778.2	1767.6	1889.5	2268.4	3076.7	4208.2	5440.5	6171.9	7096.8	7067.6	5326.6
62.5°	1285.3	1295.9	1457.5	1751.7	2371.8	3553.7	5316.0	6217.0	7560.5	7531.4	5724.1
65°	739.4	771.2	948.7	1261.4	1817.9	2779.9	4960.9	6182.5	8013.7	8011.0	6092.4
67.5°	371.0	373.7	469.1	704.9	1221.7	2080.3	4176.4	5965.2	8390.0	8331.7	6304.4
70°	238.5	243.8	275.6	363.1	675.8	1441.6	3190.6	5350.4	8154.1	8132.9	5994.4
72.5°	182.9	188.2	214.7	238.5	352.5	818.9	2159.8	4157.9	6807.9	6749.6	4674.7
75°	143.1	145.8	172.3	193.5	235.9	384.3	1083.9	2591.7	4385.8	4234.7	2660.6
77.5°	114.0	116.6	129.9	153.7	180.2	214.7	320.7	1166.0	1783.5	1592.7	863.9
80°	74.2	76.9	98.1	119.3	153.7	140.5	124.6	336.6	381.6	344.5	153.7
82.5°	42.4	45.1	66.3	95.4	116.6	79.5	71.6	98.1	90.1	87.5	47.7
85°	13.3	13.3	45.1	66.3	53.0	23.9	45.1	34.5	29.2	26.5	15.9
87.5°	2.7	2.7	21.2	23.9	8.0	2.7	5.3	8.0	10.6	13.3	8.0
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°	1097.1	1097.1	1097.1	1097.1	1097.1	1097.1	1097.1	1097.1	1097.1	1097.1	1097.1
2.5°	1099.8	1046.8	948.7	863.9	781.8	710.2	659.9	614.8	583.0	575.1	561.8
5°	1107.7	1004.4	816.2	657.2	519.4	408.1	344.5	302.1	280.9	267.7	267.7
7.5°	1115.7	962.0	691.7	479.7	328.6	249.1	209.4	190.8	182.9	180.2	177.6
10°	1131.6	930.2	585.7	344.5	225.3	188.2	172.3	164.3	159.0	156.4	156.4
12.5°	1158.1	903.7	487.6	254.4	185.5	167.0	156.4	145.8	140.5	137.8	137.8
15°	1192.5	885.1	402.8	204.1	169.6	151.1	137.8	127.2	119.3	116.6	116.6
17.5°	1240.2	871.9	331.3	180.2	156.4	135.2	119.3	108.7	100.7	98.1	98.1
20°	1287.9	871.9	273.0	167.0	143.1	119.3	103.4	90.1	82.2	79.5	79.5
22.5°	1351.5	869.2	227.9	153.7	127.2	103.4	87.5	71.6	66.3	63.6	63.6
25°	1404.5	869.2	196.1	140.5	111.3	90.1	71.6	58.3	53.0	50.4	50.4
27.5°	1468.1	861.3	167.0	124.6	95.4	74.2	58.3	47.7	42.4	39.8	39.8
30°	1523.8	850.7	148.4	111.3	82.2	61.0	47.7	37.1	34.5	34.5	34.5
32.5°	1616.5	842.7	132.5	95.4	68.9	50.4	37.1	29.2	26.5	26.5	26.5
35°	1727.8	842.7	121.9	82.2	58.3	42.4	29.2	23.9	21.2	21.2	21.2
37.5°	1873.6	850.7	108.7	71.6	47.7	34.5	23.9	18.6	15.9	15.9	15.9
40°	2027.3	869.2	98.1	63.6	42.4	26.5	18.6	13.3	10.6	13.3	13.3
42.5°	2210.1	887.8	87.5	55.7	34.5	21.2	13.3	8.0	5.3	8.0	8.0
45°	2390.3	906.3	82.2	47.7	29.2	15.9	8.0	5.3	2.7	5.3	5.3
47.5°	2612.9	951.4	76.9	42.4	23.9	13.3	5.3	2.7	0.0	2.7	2.7
50°	2870.0	1001.7	68.9	34.5	18.6	10.6	5.3	0.0	0.0	0.0	0.0
52.5°	3116.4	1044.1	61.0	29.2	15.9	8.0	2.7	0.0	0.0	0.0	0.0
55°	3362.9	1070.6	53.0	23.9	13.3	8.0	2.7	0.0	0.0	0.0	0.0
57.5°	3627.9	1086.5	47.7	21.2	10.6	5.3	2.7	0.0	0.0	0.0	0.0
60°	3922.0	1086.5	39.8	18.6	8.0	5.3	2.7	0.0	0.0	0.0	0.0
62.5°	4248.0	1054.7	37.1	15.9	8.0	5.3	2.7	0.0	0.0	0.0	0.0
65°	4513.0	940.8	31.8	13.3	8.0	5.3	2.7	0.0	0.0	0.0	0.0
67.5°	4523.6	744.7	29.2	10.6	8.0	5.3	2.7	0.0	0.0	0.0	0.0
70°	4033.3	508.8	23.9	8.0	5.3	5.3	2.7	0.0	0.0	0.0	0.0
72.5°	3018.4	273.0	21.2	8.0	5.3	2.7	2.7	0.0	0.0	0.0	0.0
75°	1627.1	106.0	13.3	8.0	5.3	2.7	2.7	0.0	0.0	0.0	0.0
77.5°	474.4	53.0	8.0	5.3	5.3	2.7	2.7	0.0	0.0	0.0	0.0
80°	87.5	26.5	5.3	5.3	5.3	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	23.9	10.6	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0
85°	10.6	5.3	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	2.7	2.7	2.7	2.7	2.7	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)