

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: P594884

Luminaire Tested: **ISS-PA1F-740-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594884
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-PA1F-740-U-T2R-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 4000K, 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: 9693 lumens
Efficiency: N/A
Efficacy: 102.7 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

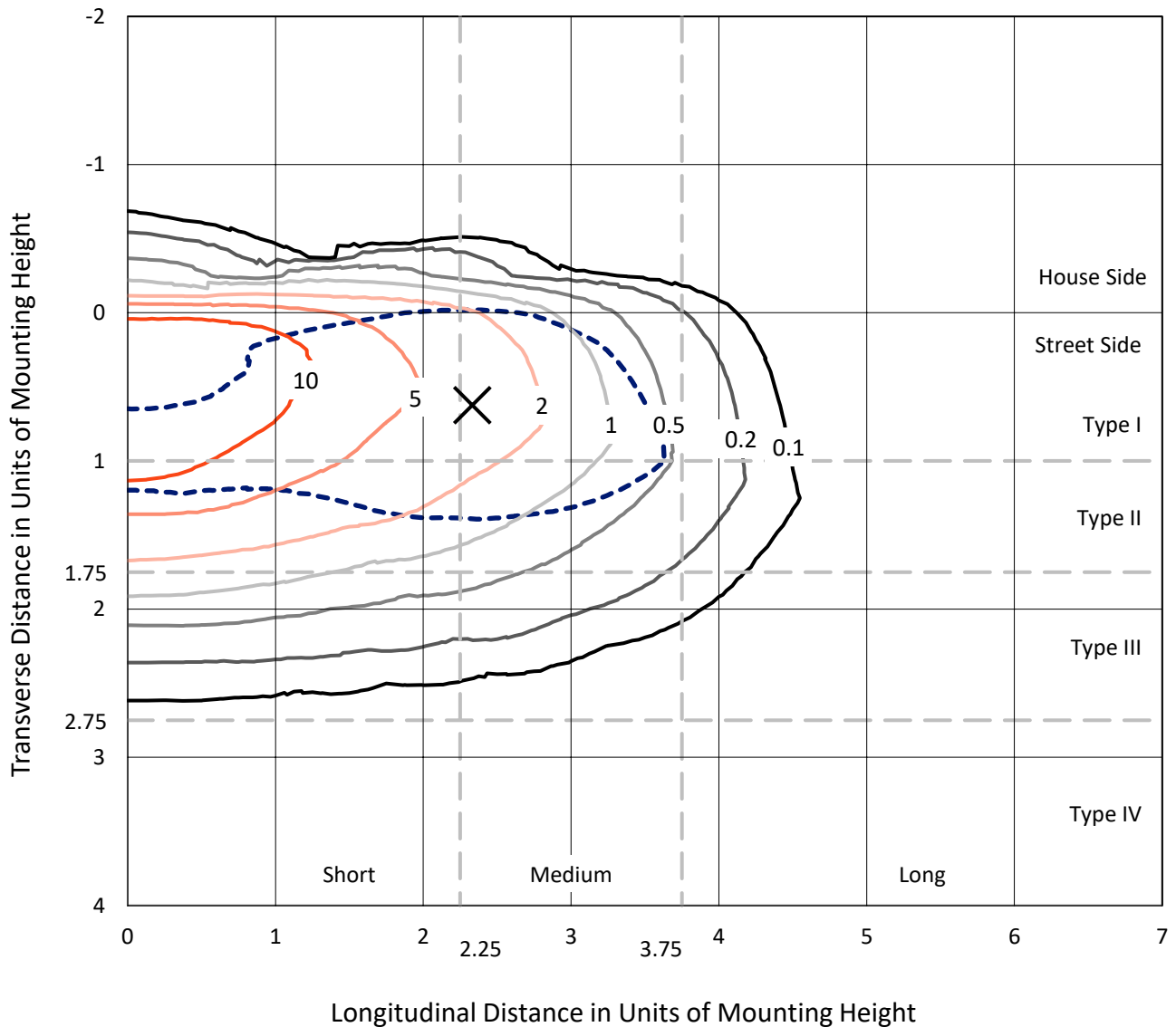




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Iso-Footcandle Lines of Horizontal Illumination

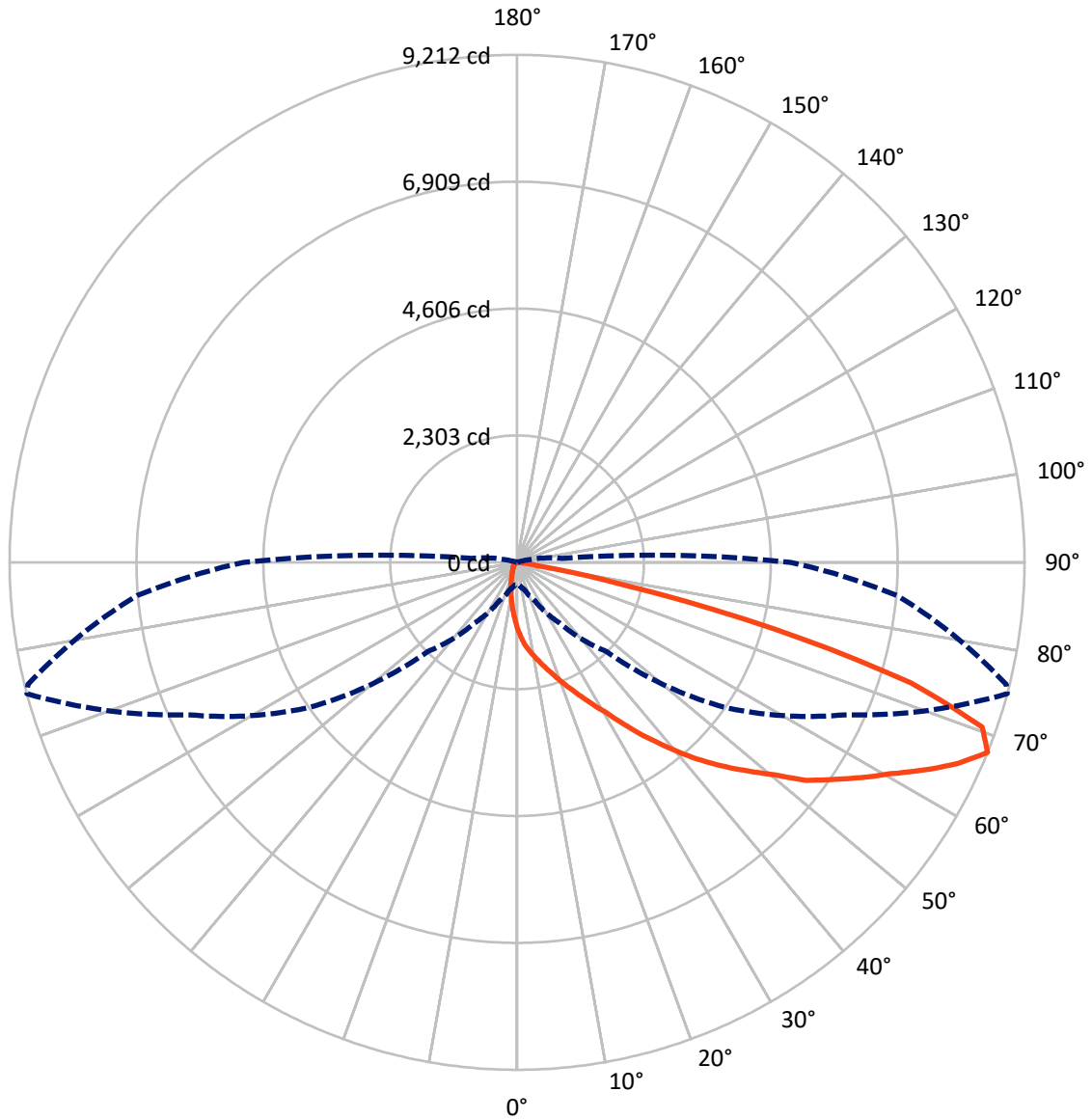
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 19 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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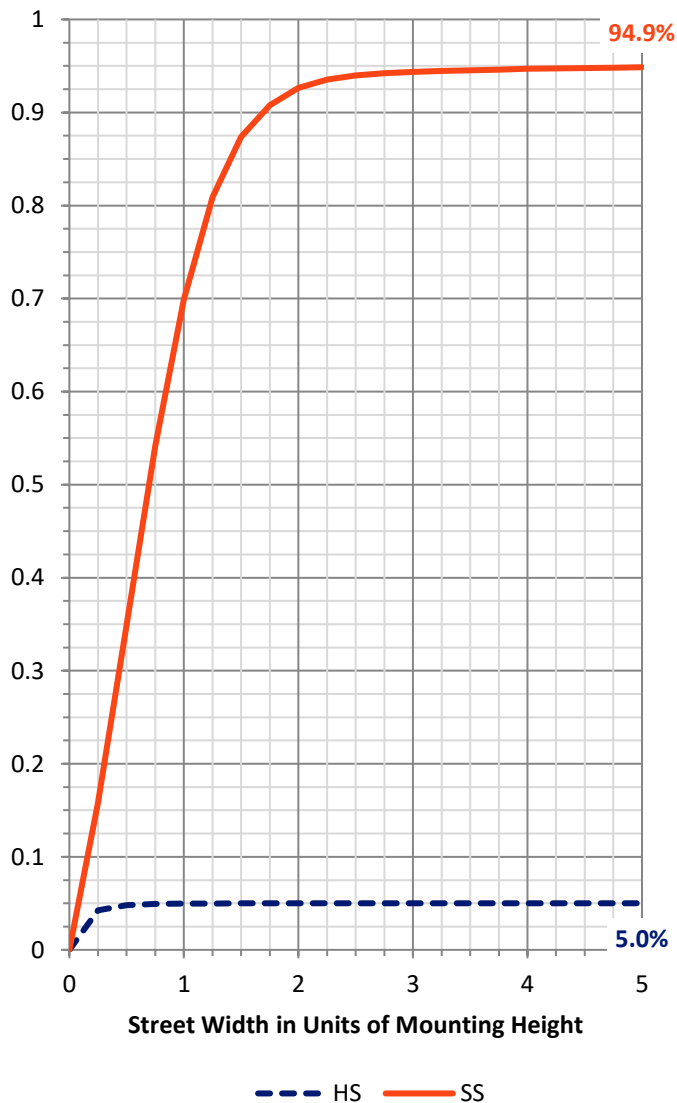
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	488.6	0.0	488.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	9204.3	0.0	9204.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	9693.0	0.0	9693.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.7	1.1
10°-20°	350.6	3.6
20°-30°	704.8	7.3
30°-40°	1333.1	13.8
40°-50°	1994.4	20.6
50°-60°	2302.6	23.8
60°-70°	2041.0	21.1
70°-80°	825.0	8.5
80°-90°	32.9	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°	9693.0	100.0
0°-180°	9693.0	100.0

Coefficient of Utilization



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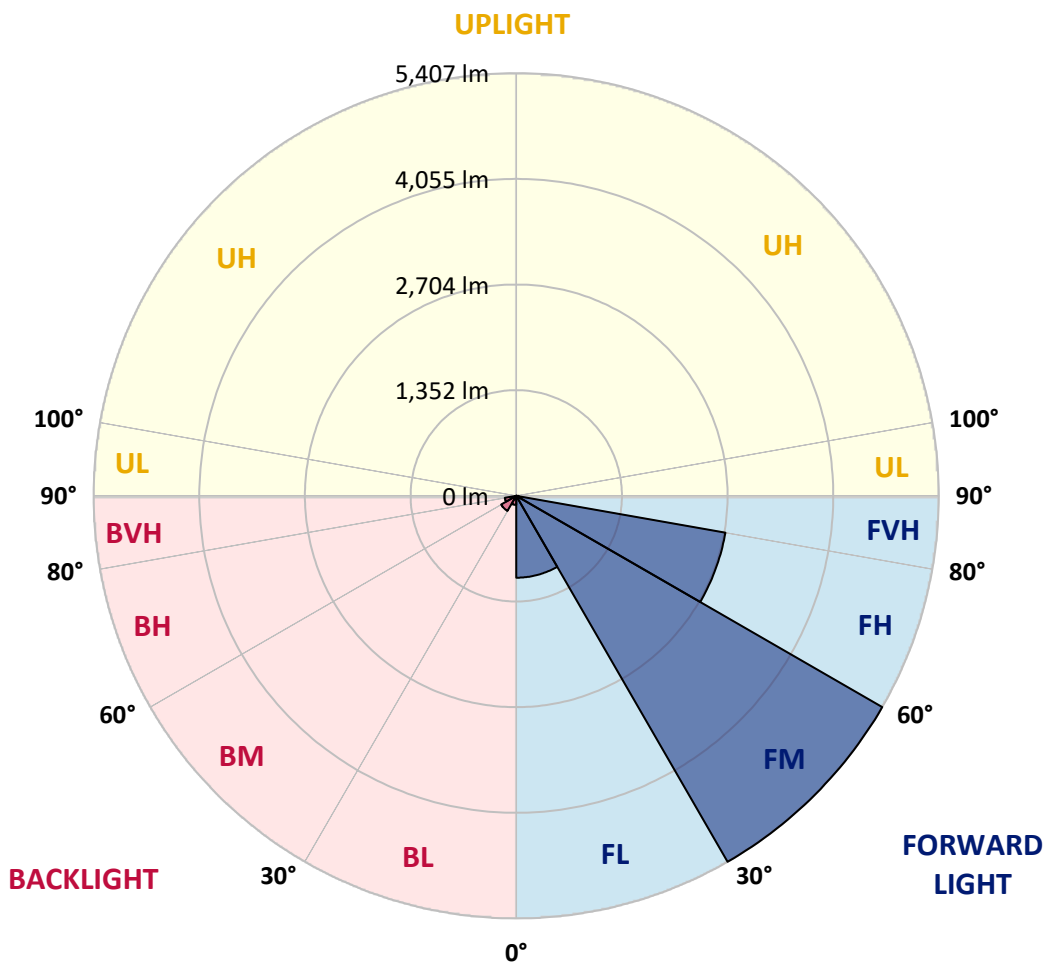
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1047.9	10.8			
FM (30°-60°)	5407.1	55.8			
FH (60°-80°)	2717.8	28.0			G2/5000
FVH (80°-90°)	31.5	0.3			G1/100
BL (0°-30°)	116.2	1.2	B1/500		
BM (30°-60°)	222.9	2.3	B1/1000		
BH (60°-80°)	148.2	1.5	B1/500		G1/500
BVH (80°-90°)	1.4	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°	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6
2.5°	1676.0	1681.8	1670.2	1644.0	1620.7	1565.4	1521.8	1443.2	1358.8	1358.8	1257.0
5°	1873.8	1868.0	1862.2	1841.8	1824.4	1777.8	1719.6	1635.2	1504.3	1492.7	1323.9
7.5°	1969.9	1964.0	1952.4	1943.7	1943.7	1911.7	1856.4	1769.1	1623.6	1612.0	1385.0
10°	2083.3	2071.7	2071.7	2048.4	2042.6	2004.8	1975.7	1900.0	1740.0	1725.4	1454.8
12.5°	2217.2	2205.5	2208.5	2188.1	2179.4	2138.6	2097.9	2025.1	1865.1	1850.6	1536.3
15°	2292.8	2287.0	2304.5	2307.4	2313.2	2278.3	2240.5	2164.8	2004.8	1984.4	1632.3
17.5°	2336.5	2336.5	2356.8	2394.7	2438.3	2418.0	2388.9	2327.8	2147.4	2135.7	1734.2
20°	2420.9	2412.1	2447.0	2482.0	2537.2	2554.7	2546.0	2499.4	2319.0	2284.1	1844.7
22.5°	2560.5	2548.9	2580.9	2624.5	2691.5	2697.3	2703.1	2679.8	2493.6	2458.7	1961.1
25°	2889.3	2860.2	2831.1	2825.3	2851.5	2874.8	2857.3	2874.8	2691.5	2659.5	2086.2
27.5°	3529.5	3480.0	3340.3	3186.1	3078.5	3098.8	3043.5	3075.5	2918.4	2877.7	2202.6
30°	4143.4	4093.9	3980.5	3706.9	3459.6	3349.1	3267.6	3255.9	3151.2	3104.6	2336.5
32.5°	4571.1	4539.1	4463.5	4280.2	3971.7	3689.5	3532.4	3477.1	3462.5	3389.8	2508.2
35°	4862.1	4833.0	4780.6	4632.2	4405.3	4091.0	3820.4	3698.2	3808.8	3721.5	2703.1
37.5°	5036.7	5016.3	4958.1	4856.3	4734.1	4527.5	4178.3	3983.4	4157.9	4076.5	2953.3
40°	5164.7	5112.3	5071.6	4993.0	4952.3	4885.4	4585.7	4280.2	4536.2	4451.8	3200.7
42.5°	5176.3	5153.1	5121.1	5074.5	5080.3	5124.0	5019.2	4623.5	4917.4	4838.8	3462.5
45°	5173.4	5150.1	5126.9	5080.3	5109.4	5272.4	5368.4	4984.3	5289.8	5208.3	3738.9
47.5°	5089.0	5071.6	5077.4	5077.4	5115.2	5336.4	5639.0	5350.9	5662.3	5583.7	4073.6
50°	4792.3	4809.7	4926.1	4987.2	5054.1	5339.3	5828.1	5735.0	6063.8	6008.5	4396.5
52.5°	3852.4	3951.4	4422.7	4745.7	4940.7	5281.1	5950.3	6139.4	6573.0	6488.6	4763.2
55°	2944.6	2950.4	3404.3	4155.0	4716.6	5176.3	6020.1	6413.0	6960.0	6913.4	5086.1
57.5°	2388.9	2385.9	2610.0	3285.0	4134.7	5010.5	6037.6	6613.7	7370.2	7283.0	5458.6
60°	1952.4	1940.8	2074.6	2490.7	3378.1	4620.6	5973.6	6776.7	7792.1	7760.1	5848.5
62.5°	1411.2	1422.8	1600.3	1923.3	2604.2	3901.9	5836.8	6826.1	8301.3	8269.3	6284.9
65°	811.8	846.7	1041.7	1385.0	1996.0	3052.3	5446.9	6788.3	8798.9	8796.0	6689.4
67.5°	407.4	410.3	515.0	774.0	1341.4	2284.1	4585.7	6549.7	9212.1	9148.1	6922.1
70°	261.9	267.7	302.6	398.6	742.0	1582.9	3503.3	5874.7	8953.1	8929.8	6581.7
72.5°	200.8	206.6	235.7	261.9	387.0	899.1	2371.4	4565.3	7475.0	7411.0	5132.7
75°	157.1	160.0	189.1	212.4	259.0	421.9	1190.1	2845.7	4815.5	4649.7	2921.3
77.5°	125.1	128.0	142.6	168.8	197.9	235.7	352.1	1280.3	1958.2	1748.7	948.6
80°	81.5	84.4	107.7	130.9	168.8	154.2	136.8	369.5	419.0	378.3	168.8
82.5°	46.6	49.5	72.7	104.7	128.0	87.3	78.6	107.7	98.9	96.0	52.4
85°	14.5	14.5	49.5	72.7	58.2	26.2	49.5	37.8	32.0	29.1	17.5
87.5°	2.9	2.9	23.3	26.2	8.7	2.9	5.8	8.7	11.6	14.5	8.7
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°	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6
2.5°	1207.5	1149.3	1041.7	948.6	858.4	779.8	724.5	675.0	640.1	631.4	616.9
5°	1216.2	1102.8	896.2	721.6	570.3	448.1	378.3	331.7	308.4	293.9	293.9
7.5°	1225.0	1056.2	759.4	526.7	360.8	273.5	229.9	209.5	200.8	197.9	194.9
10°	1242.4	1021.3	643.0	378.3	247.3	206.6	189.1	180.4	174.6	171.7	171.7
12.5°	1271.5	992.2	535.4	279.3	203.7	183.3	171.7	160.0	154.2	151.3	151.3
15°	1309.4	971.8	442.3	224.0	186.2	165.9	151.3	139.7	130.9	128.0	128.0
17.5°	1361.7	957.3	363.7	197.9	171.7	148.4	130.9	119.3	110.6	107.7	107.7
20°	1414.1	957.3	299.7	183.3	157.1	130.9	113.5	98.9	90.2	87.3	87.3
22.5°	1483.9	954.4	250.2	168.8	139.7	113.5	96.0	78.6	72.7	69.8	69.8
25°	1542.1	954.4	215.3	154.2	122.2	98.9	78.6	64.0	58.2	55.3	55.3
27.5°	1612.0	945.6	183.3	136.8	104.7	81.5	64.0	52.4	46.6	43.6	43.6
30°	1673.1	934.0	162.9	122.2	90.2	66.9	52.4	40.7	37.8	37.8	37.8
32.5°	1774.9	925.3	145.5	104.7	75.7	55.3	40.7	32.0	29.1	29.1	29.1
35°	1897.1	925.3	133.8	90.2	64.0	46.6	32.0	26.2	23.3	23.3	23.3
37.5°	2057.1	934.0	119.3	78.6	52.4	37.8	26.2	20.4	17.5	17.5	17.5
40°	2225.9	954.4	107.7	69.8	46.6	29.1	20.4	14.5	11.6	14.5	14.5
42.5°	2426.7	974.7	96.0	61.1	37.8	23.3	14.5	8.7	5.8	8.7	8.7
45°	2624.5	995.1	90.2	52.4	32.0	17.5	8.7	5.8	2.9	5.8	5.8
47.5°	2869.0	1044.6	84.4	46.6	26.2	14.5	5.8	2.9	0.0	2.9	2.9
50°	3151.2	1099.9	75.7	37.8	20.4	11.6	5.8	0.0	0.0	0.0	0.0
52.5°	3421.8	1146.4	66.9	32.0	17.5	8.7	2.9	0.0	0.0	0.0	0.0
55°	3692.4	1175.5	58.2	26.2	14.5	8.7	2.9	0.0	0.0	0.0	0.0
57.5°	3983.4	1193.0	52.4	23.3	11.6	5.8	2.9	0.0	0.0	0.0	0.0
60°	4306.3	1193.0	43.6	20.4	8.7	5.8	2.9	0.0	0.0	0.0	0.0
62.5°	4664.2	1158.1	40.7	17.5	8.7	5.8	2.9	0.0	0.0	0.0	0.0
65°	4955.2	1032.9	34.9	14.5	8.7	5.8	2.9	0.0	0.0	0.0	0.0
67.5°	4966.8	817.6	32.0	11.6	8.7	5.8	2.9	0.0	0.0	0.0	0.0
70°	4428.5	558.7	26.2	8.7	5.8	5.8	2.9	0.0	0.0	0.0	0.0
72.5°	3314.1	299.7	23.3	8.7	5.8	2.9	2.9	0.0	0.0	0.0	0.0
75°	1786.5	116.4	14.5	8.7	5.8	2.9	2.9	0.0	0.0	0.0	0.0
77.5°	520.8	58.2	8.7	5.8	5.8	2.9	2.9	0.0	0.0	0.0	0.0
80°	96.0	29.1	5.8	5.8	5.8	2.9	0.0	0.0	0.0	0.0	0.0
82.5°	26.2	11.6	2.9	2.9	2.9	2.9	0.0	0.0	0.0	0.0	0.0
85°	11.6	5.8	2.9	2.9	2.9	2.9	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	2.9	2.9	2.9	2.9	2.9	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)