

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: P594794

Luminaire Tested: **ISS-PA1E-735-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594794
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-PA1E-735-U-T2R-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 3500K, 1050mA 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: 8239 lumens
Efficiency: N/A
Efficacy: 100.0 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

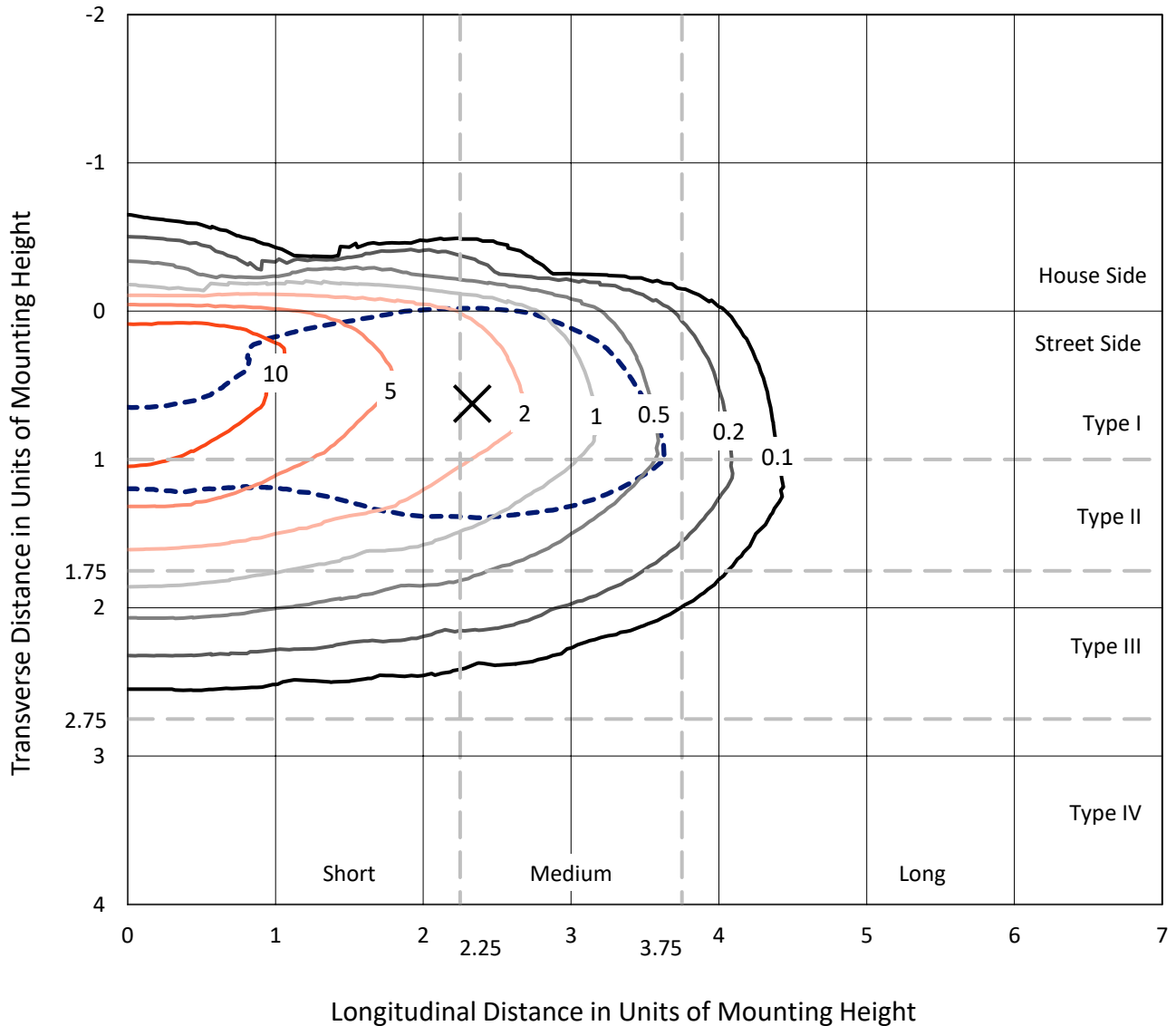
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

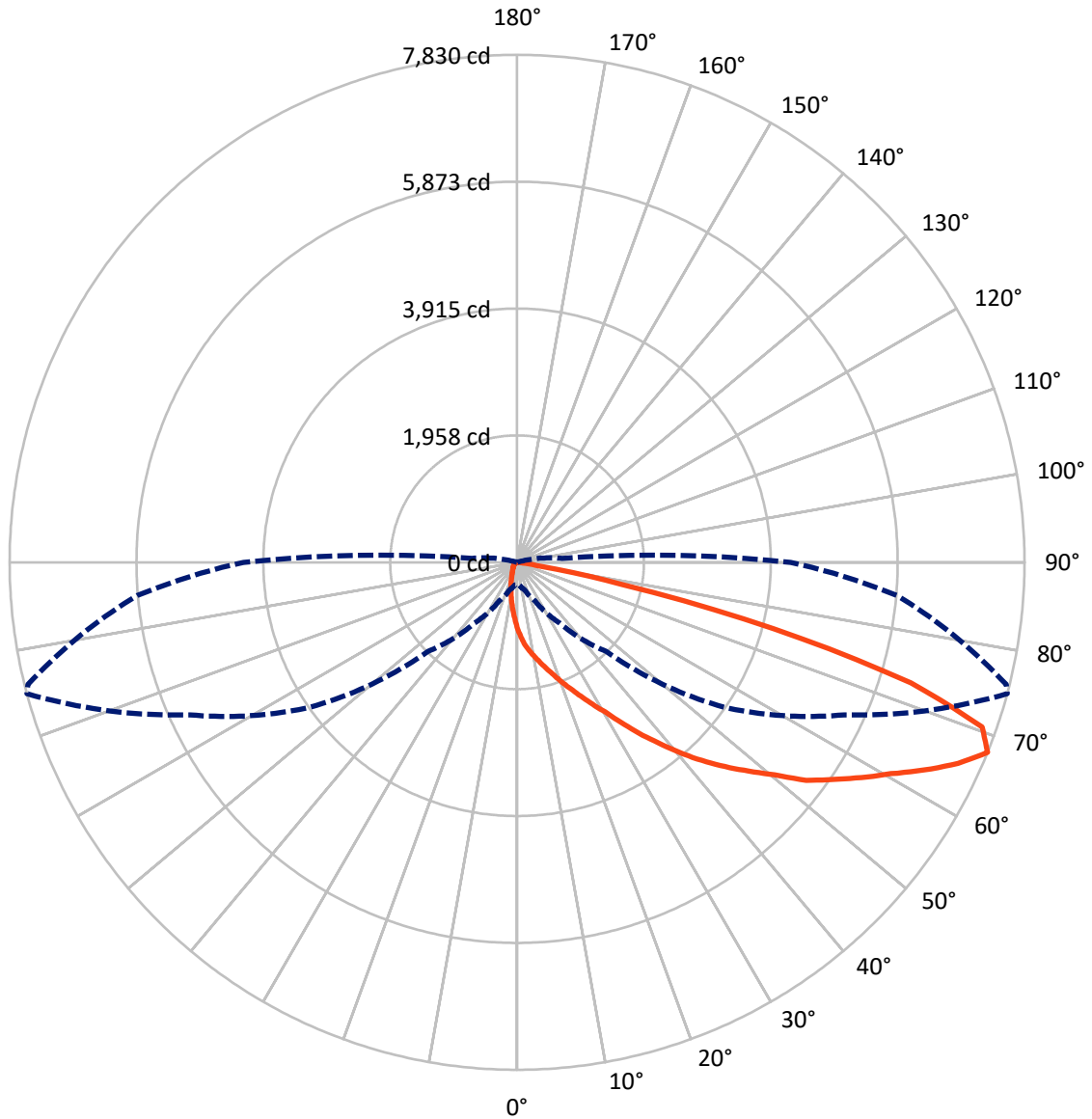
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 16.1 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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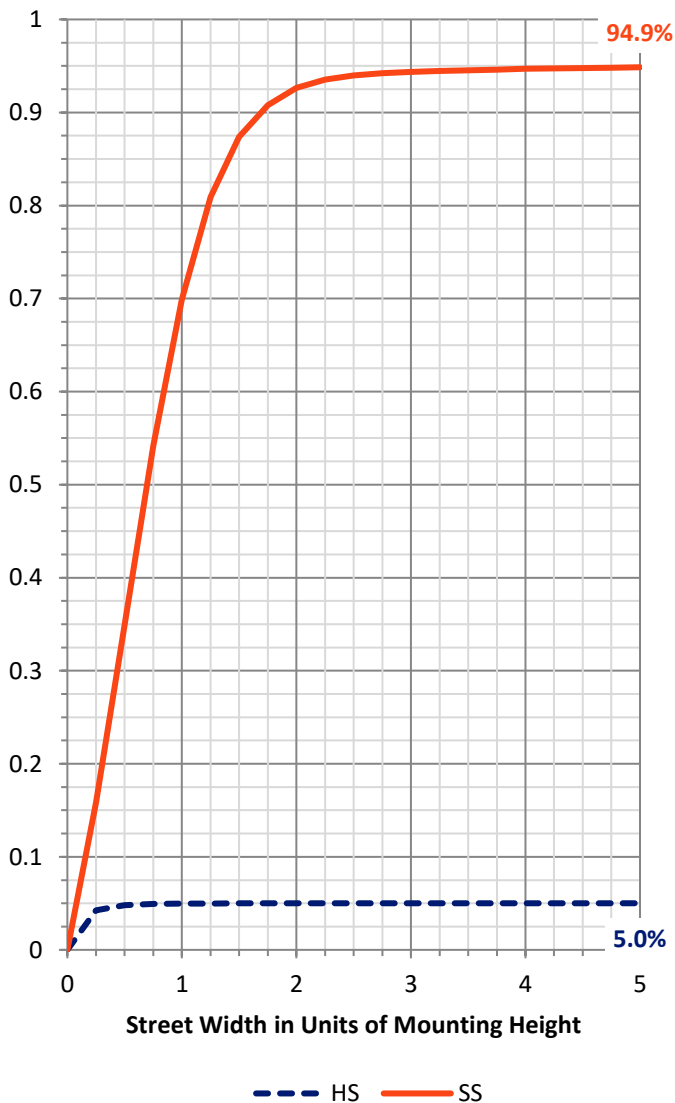
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	415.4	0.0	415.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	7823.6	0.0	7823.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	8239.0	0.0	8239.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.4	1.1
10°-20°	298.0	3.6
20°-30°	599.1	7.3
30°-40°	1133.1	13.8
40°-50°	1695.2	20.6
50°-60°	1957.2	23.8
60°-70°	1734.9	21.1
70°-80°	701.2	8.5
80°-90°	28.0	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°	8239.0	100.0
0°-180°	8239.0	100.0

Coefficient of Utilization



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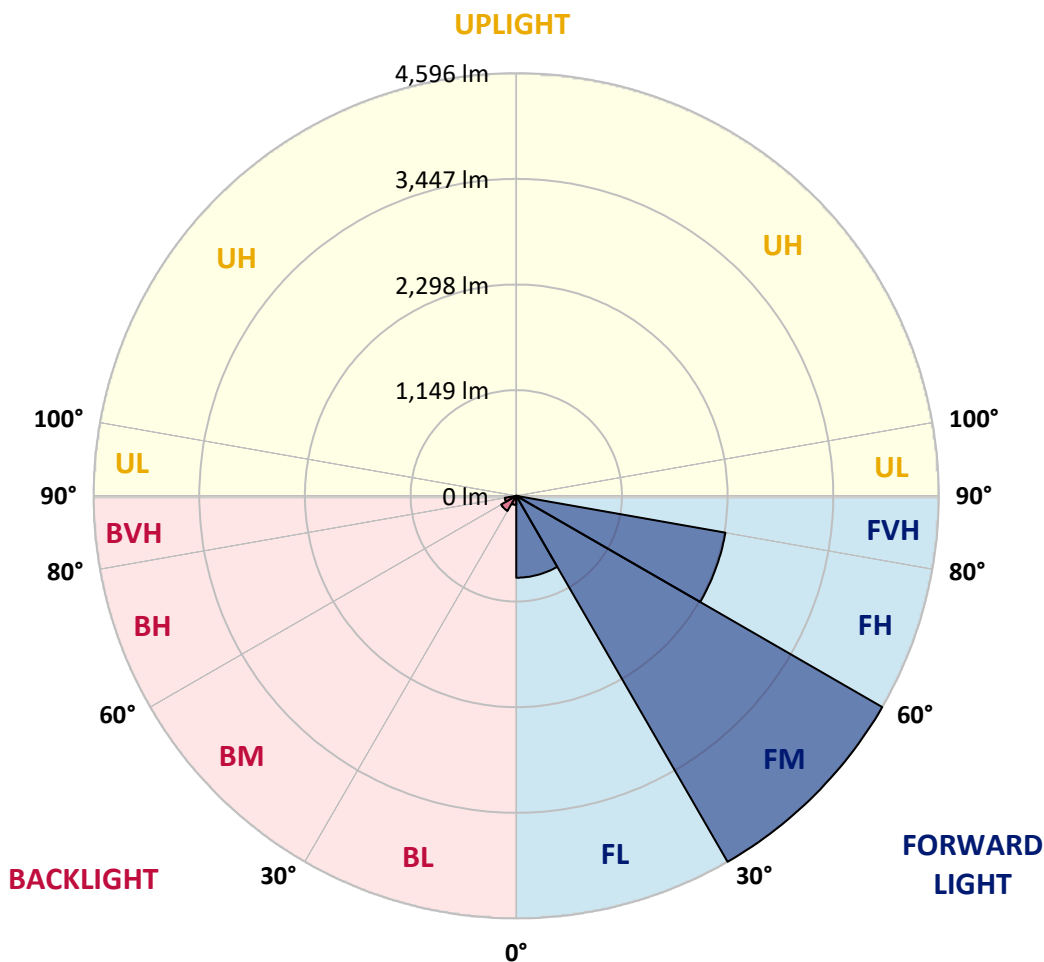
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	890.7	10.8			
FM (30°-60°)	4596.0	55.8			
FH (60°-80°)	2310.1	28.0			G2/5000
FVH (80°-90°)	26.8	0.3			G1/100
BL (0°-30°)	98.7	1.2	B0/110		
BM (30°-60°)	189.5	2.3	B0/220		
BH (60°-80°)	125.9	1.5	B1/500		G1/500
BVH (80°-90°)	1.2	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°	1023.9	1023.9	1023.9	1023.9	1023.9	1023.9	1023.9	1023.9	1023.9	1023.9	1023.9
2.5°	1424.6	1429.5	1419.6	1397.4	1377.6	1330.6	1293.5	1226.7	1155.0	1155.0	1068.4
5°	1592.8	1587.8	1582.9	1565.5	1550.7	1511.1	1461.7	1389.9	1278.7	1268.8	1125.3
7.5°	1674.4	1669.4	1659.5	1652.1	1652.1	1624.9	1577.9	1503.7	1380.1	1370.2	1177.3
10°	1770.8	1760.9	1760.9	1741.1	1736.2	1704.0	1679.3	1615.0	1479.0	1466.6	1236.6
12.5°	1884.6	1874.7	1877.2	1859.9	1852.4	1817.8	1783.2	1721.4	1585.3	1573.0	1305.9
15°	1948.9	1944.0	1958.8	1961.3	1966.2	1936.5	1904.4	1840.1	1704.0	1686.7	1387.5
17.5°	1986.0	1986.0	2003.3	2035.5	2072.6	2055.2	2030.5	1978.6	1825.2	1815.3	1474.0
20°	2057.7	2050.3	2080.0	2109.7	2156.6	2171.5	2164.1	2124.5	1971.2	1941.5	1568.0
22.5°	2176.4	2166.5	2193.7	2230.8	2287.7	2292.7	2297.6	2277.8	2119.5	2089.9	1667.0
25°	2455.9	2431.2	2406.4	2401.5	2423.8	2443.5	2428.7	2443.5	2287.7	2260.5	1773.3
27.5°	3000.0	2958.0	2839.3	2708.2	2616.7	2634.0	2587.0	2614.2	2480.6	2446.0	1872.2
30°	3521.9	3479.8	3383.4	3150.9	2940.7	2846.7	2777.4	2767.5	2678.5	2638.9	1986.0
32.5°	3885.4	3858.2	3793.9	3638.1	3375.9	3136.0	3002.5	2955.5	2943.1	2881.3	2131.9
35°	4132.8	4108.0	4063.5	3937.4	3744.5	3477.3	3247.3	3143.5	3237.4	3163.2	2297.6
37.5°	4281.1	4263.8	4214.4	4127.8	4023.9	3848.3	3551.5	3385.8	3534.2	3465.0	2510.3
40°	4390.0	4345.4	4310.8	4244.0	4209.4	4152.5	3897.8	3638.1	3855.8	3784.0	2720.5
42.5°	4399.9	4380.1	4352.9	4313.3	4318.2	4355.3	4266.3	3929.9	4179.7	4113.0	2943.1
45°	4397.4	4377.6	4357.8	4318.2	4343.0	4481.5	4563.1	4236.6	4496.3	4427.1	3178.1
47.5°	4325.7	4310.8	4315.8	4315.8	4347.9	4535.9	4793.1	4548.3	4812.9	4746.1	3462.5
50°	4073.4	4088.2	4187.2	4239.1	4296.0	4538.4	4953.9	4874.7	5154.2	5107.2	3737.0
52.5°	3274.5	3358.6	3759.3	4033.8	4199.5	4488.9	5057.7	5218.5	5587.0	5515.3	4048.7
55°	2502.9	2507.8	2893.7	3531.8	4009.1	4399.9	5117.1	5451.0	5915.9	5876.4	4323.2
57.5°	2030.5	2028.0	2218.5	2792.3	3514.4	4258.9	5131.9	5621.6	6264.7	6190.5	4639.8
60°	1659.5	1649.6	1763.4	2117.1	2871.4	3927.5	5077.5	5760.1	6623.3	6596.1	4971.2
62.5°	1199.5	1209.4	1360.3	1634.8	2213.5	3316.6	4961.3	5802.2	7056.1	7028.9	5342.2
65°	690.0	719.7	885.4	1177.3	1696.6	2594.4	4629.9	5770.0	7479.0	7476.5	5685.9
67.5°	346.3	348.7	437.8	657.9	1140.2	1941.5	3897.8	5567.2	7830.2	7775.8	5883.8
70°	222.6	227.5	257.2	338.8	630.7	1345.4	2977.8	4993.4	7610.1	7590.3	5594.4
72.5°	170.7	175.6	200.3	222.6	328.9	764.2	2015.7	3880.5	6353.7	6299.3	4362.8
75°	133.6	136.0	160.8	180.5	220.1	358.6	1011.5	2418.8	4093.2	3952.2	2483.1
77.5°	106.3	108.8	121.2	143.4	168.2	200.3	299.3	1088.2	1664.5	1486.4	806.3
80°	69.3	71.7	91.5	111.3	143.4	131.1	116.2	314.1	356.1	321.5	143.4
82.5°	39.6	42.0	61.8	89.0	108.8	74.2	66.8	91.5	84.1	81.6	44.5
85°	12.4	12.4	42.0	61.8	49.5	22.3	42.0	32.2	27.2	24.7	14.8
87.5°	2.5	2.5	19.8	22.3	7.4	2.5	4.9	7.4	9.9	12.4	7.4
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°	1023.9	1023.9	1023.9	1023.9	1023.9	1023.9	1023.9	1023.9	1023.9	1023.9	1023.9
2.5°	1026.4	976.9	885.4	806.3	729.6	662.8	615.8	573.8	544.1	536.7	524.3
5°	1033.8	937.4	761.8	613.4	484.8	380.9	321.5	281.9	262.2	249.8	249.8
7.5°	1041.2	897.8	645.5	447.7	306.7	232.5	195.4	178.1	170.7	168.2	165.7
10°	1056.1	868.1	546.6	321.5	210.2	175.6	160.8	153.3	148.4	145.9	145.9
12.5°	1080.8	843.4	455.1	237.4	173.1	155.8	145.9	136.0	131.1	128.6	128.6
15°	1112.9	826.1	375.9	190.4	158.3	141.0	128.6	118.7	111.3	108.8	108.8
17.5°	1157.5	813.7	309.2	168.2	145.9	126.1	111.3	101.4	94.0	91.5	91.5
20°	1202.0	813.7	254.7	155.8	133.6	111.3	96.5	84.1	76.7	74.2	74.2
22.5°	1261.3	811.2	212.7	143.4	118.7	96.5	81.6	66.8	61.8	59.4	59.4
25°	1310.8	811.2	183.0	131.1	103.9	84.1	66.8	54.4	49.5	47.0	47.0
27.5°	1370.2	803.8	155.8	116.2	89.0	69.3	54.4	44.5	39.6	37.1	37.1
30°	1422.1	793.9	138.5	103.9	76.7	56.9	44.5	34.6	32.2	32.2	32.2
32.5°	1508.7	786.5	123.7	89.0	64.3	47.0	34.6	27.2	24.7	24.7	24.7
35°	1612.5	786.5	113.8	76.7	54.4	39.6	27.2	22.3	19.8	19.8	19.8
37.5°	1748.6	793.9	101.4	66.8	44.5	32.2	22.3	17.3	14.8	14.8	14.8
40°	1892.0	811.2	91.5	59.4	39.6	24.7	17.3	12.4	9.9	12.4	12.4
42.5°	2062.7	828.5	81.6	51.9	32.2	19.8	12.4	7.4	4.9	7.4	7.4
45°	2230.8	845.8	76.7	44.5	27.2	14.8	7.4	4.9	2.5	4.9	4.9
47.5°	2438.6	887.9	71.7	39.6	22.3	12.4	4.9	2.5	0.0	2.5	2.5
50°	2678.5	934.9	64.3	32.2	17.3	9.9	4.9	0.0	0.0	0.0	0.0
52.5°	2908.5	974.4	56.9	27.2	14.8	7.4	2.5	0.0	0.0	0.0	0.0
55°	3138.5	999.2	49.5	22.3	12.4	7.4	2.5	0.0	0.0	0.0	0.0
57.5°	3385.8	1014.0	44.5	19.8	9.9	4.9	2.5	0.0	0.0	0.0	0.0
60°	3660.4	1014.0	37.1	17.3	7.4	4.9	2.5	0.0	0.0	0.0	0.0
62.5°	3964.6	984.3	34.6	14.8	7.4	4.9	2.5	0.0	0.0	0.0	0.0
65°	4211.9	878.0	29.7	12.4	7.4	4.9	2.5	0.0	0.0	0.0	0.0
67.5°	4221.8	695.0	27.2	9.9	7.4	4.9	2.5	0.0	0.0	0.0	0.0
70°	3764.2	474.9	22.3	7.4	4.9	4.9	2.5	0.0	0.0	0.0	0.0
72.5°	2817.0	254.7	19.8	7.4	4.9	2.5	2.5	0.0	0.0	0.0	0.0
75°	1518.6	98.9	12.4	7.4	4.9	2.5	2.5	0.0	0.0	0.0	0.0
77.5°	442.7	49.5	7.4	4.9	4.9	2.5	2.5	0.0	0.0	0.0	0.0
80°	81.6	24.7	4.9	4.9	4.9	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	22.3	9.9	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0
85°	9.9	4.9	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	2.5	2.5	2.5	2.5	2.5	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)