

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: P594796

Luminaire Tested: **ISS-PA1E-735-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594796
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-PA1E-735-U-T2U-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 3500K, 1050mA 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: 7167 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

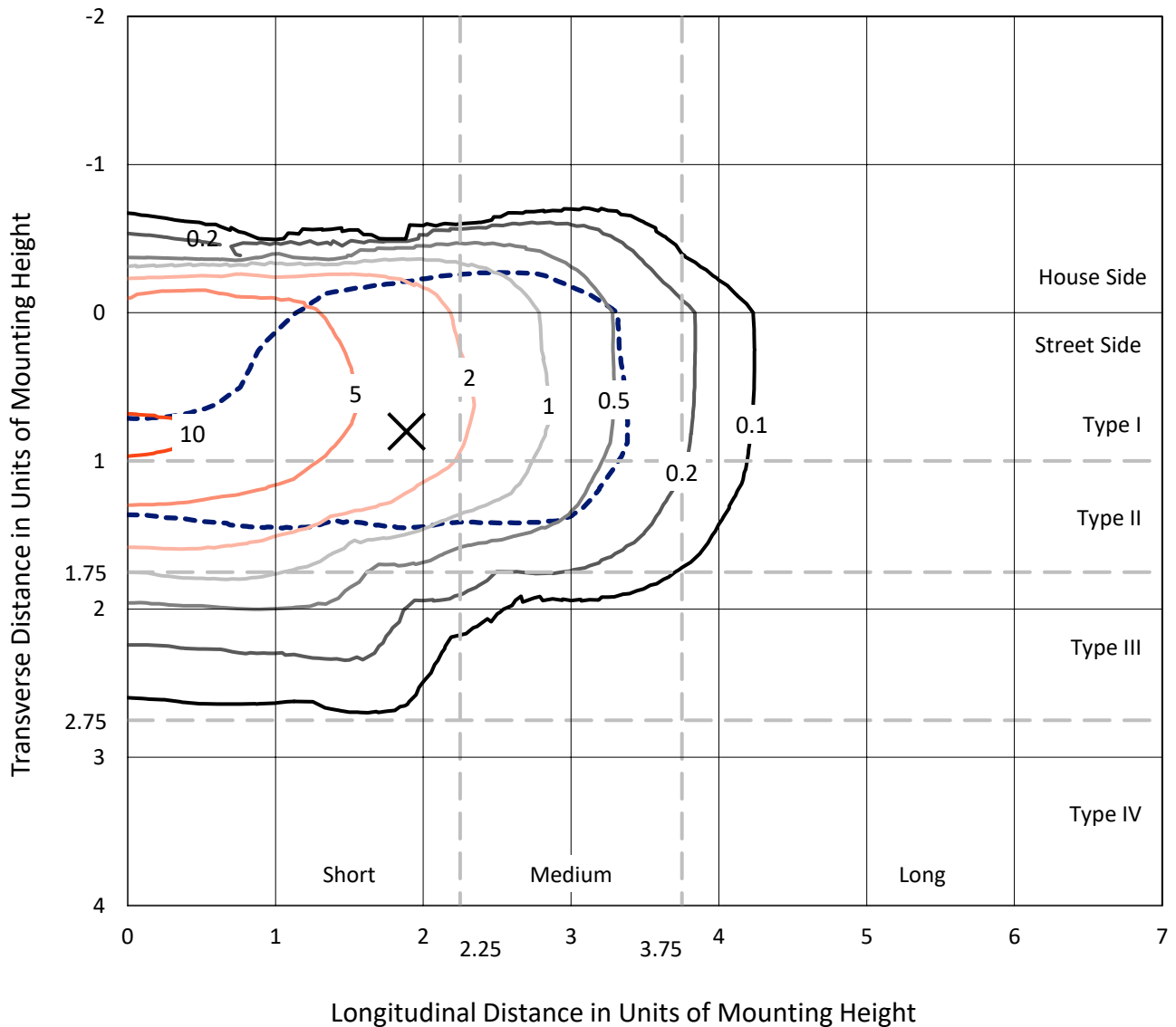
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

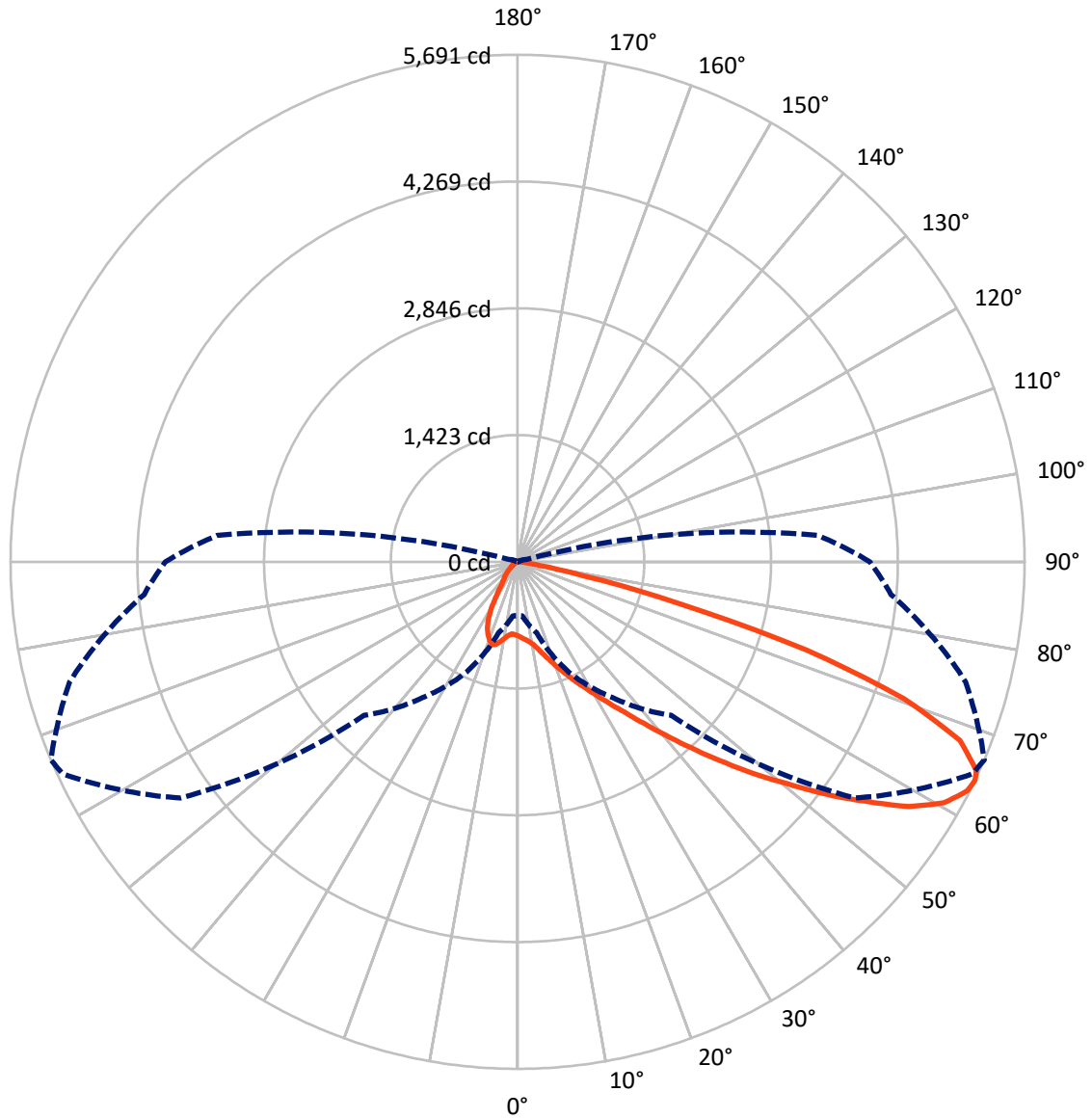
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 11 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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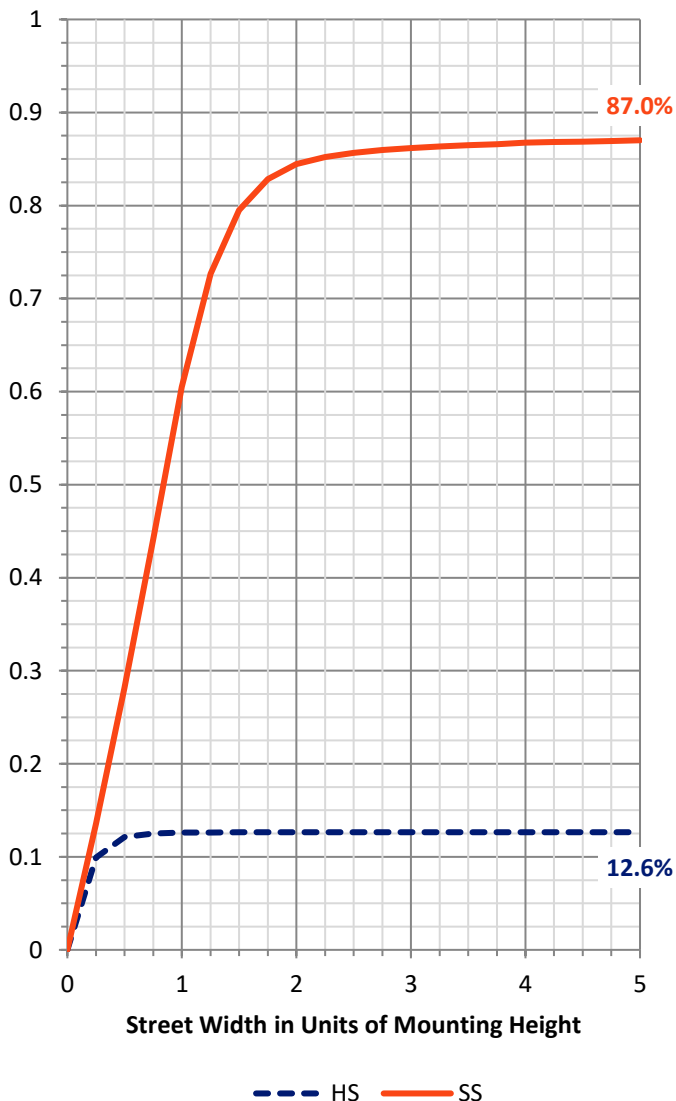
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	916.8	0.0	916.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	6250.2	0.0	6250.2
	% Fixture	87.2	0.0	87.2
Total	Lumens	7167.0	0.0	7167.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.0	1.1
10°-20°	233.2	3.3
20°-30°	423.0	5.9
30°-40°	810.4	11.3
40°-50°	1493.6	20.8
50°-60°	1929.2	26.9
60°-70°	1580.2	22.0
70°-80°	580.9	8.1
80°-90°	37.5	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°	7167.0	100.0
0°-180°	7167.0	100.0

Coefficient of Utilization



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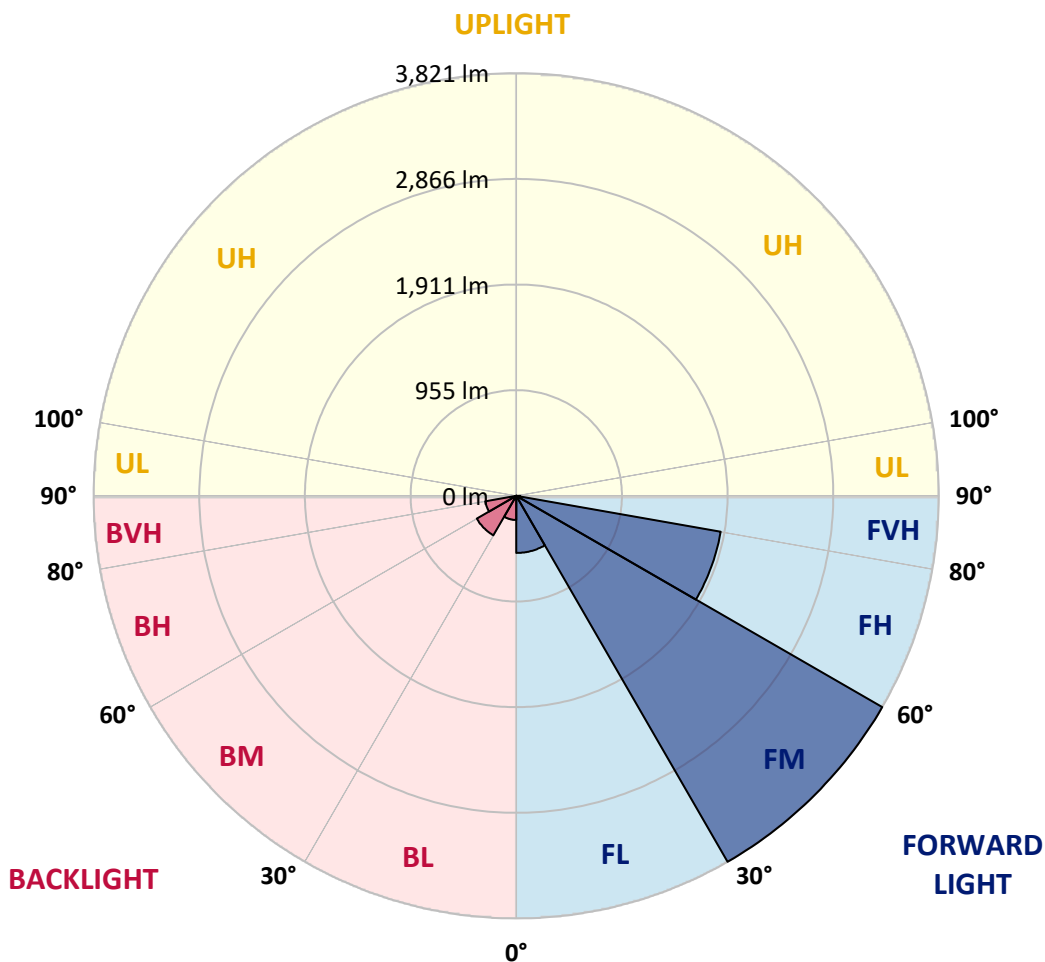
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	516.7	7.2			
FM (30°-60°)	3821.0	53.3			
FH (60°-80°)	1876.6	26.2			G2/5000
FVH (80°-90°)	35.8	0.5			G1/100
BL (0°-30°)	218.5	3.0	B1/500		
BM (30°-60°)	412.2	5.8	B1/1000		
BH (60°-80°)	284.4	4.0	B1/500		G1/500
BVH (80°-90°)	1.7	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8
2.5°	862.3	862.3	867.3	864.8	864.8	859.9	852.5	854.9	852.5	850.0	842.6
5°	847.6	850.0	852.5	857.4	867.3	872.2	872.2	874.7	874.7	872.2	862.3
7.5°	840.2	845.1	850.0	854.9	867.3	874.7	887.0	901.8	901.8	904.2	894.4
10°	867.3	872.2	879.6	887.0	899.3	911.6	921.5	938.7	938.7	943.6	941.2
12.5°	923.9	923.9	926.4	931.3	948.6	963.4	980.6	995.4	997.8	1000.3	992.9
15°	992.9	992.9	995.4	995.4	1005.2	1027.4	1059.4	1074.2	1071.8	1069.3	1054.5
17.5°	1071.8	1071.8	1071.8	1074.2	1079.2	1091.5	1128.4	1158.0	1155.5	1153.1	1123.5
20°	1145.7	1150.6	1155.5	1158.0	1162.9	1172.8	1212.2	1246.7	1254.1	1244.2	1192.5
22.5°	1229.4	1231.9	1234.4	1241.8	1254.1	1259.0	1298.4	1350.2	1357.6	1345.2	1276.3
25°	1313.2	1318.1	1325.5	1335.4	1347.7	1372.3	1399.4	1468.4	1475.8	1461.0	1367.4
27.5°	1498.0	1495.5	1473.4	1456.1	1458.6	1475.8	1512.8	1586.7	1594.1	1579.3	1458.6
30°	1813.4	1783.8	1741.9	1665.5	1591.6	1599.0	1650.8	1722.2	1734.5	1714.8	1559.6
32.5°	2261.8	2232.2	2128.7	1961.2	1798.6	1744.4	1810.9	1879.9	1894.7	1872.5	1677.9
35°	2697.9	2690.5	2591.9	2389.9	2114.0	1963.7	1980.9	2069.6	2074.5	2047.4	1825.7
37.5°	3237.5	3210.4	3074.8	2848.2	2522.9	2254.4	2205.1	2288.9	2301.2	2269.2	2005.5
40°	3594.7	3584.9	3503.5	3343.4	2993.5	2656.0	2478.6	2559.9	2557.4	2510.6	2212.5
42.5°	3801.7	3806.6	3801.7	3725.3	3525.7	3138.9	2840.8	2845.7	2853.1	2803.8	2451.5
45°	3942.1	3942.1	3949.5	4011.1	3934.7	3715.4	3281.8	3170.9	3180.8	3104.4	2700.3
47.5°	3939.6	3954.4	3993.8	4136.7	4240.2	4252.5	3833.7	3550.4	3545.4	3429.6	2956.6
50°	3673.6	3663.7	3826.3	4146.6	4457.0	4696.0	4356.0	3952.0	3910.1	3767.2	3222.7
52.5°	3074.8	3106.9	3377.9	3848.5	4508.8	4996.6	4806.9	4390.5	4336.3	4102.3	3456.7
55°	2552.5	2587.0	2850.6	3311.4	4227.9	5102.6	5110.0	4856.2	4747.8	4393.0	3698.2
57.5°	1916.8	1983.4	2372.7	2806.3	3612.0	4838.9	5218.4	5302.1	5183.9	4673.9	3895.3
60°	1224.5	1263.9	1700.0	2234.7	2927.0	4149.1	5196.2	5560.8	5496.8	4930.1	4060.4
62.5°	800.7	822.9	1123.5	1682.8	2229.8	3126.6	4932.6	5664.3	5664.3	5102.6	4183.6
64°	603.6	608.6	822.9	1367.4	1860.2	2436.7	4622.1	5632.3	5691.4	5206.0	4208.2
65°	478.0	480.4	643.1	1135.8	1670.5	1998.2	4351.1	5563.3	5659.4	5245.5	4223.0
67.5°	335.1	342.5	416.4	655.4	1197.4	1153.1	3225.1	5238.1	5356.3	5257.8	4203.3
70°	290.7	300.6	349.9	428.7	854.9	670.2	1714.8	4464.4	4604.9	4898.1	3912.5
72.5°	221.7	234.1	293.2	362.2	601.2	453.3	662.8	3170.9	3392.7	3786.9	3230.1
75°	160.1	165.1	216.8	295.7	421.3	349.9	285.8	1636.0	1860.2	2234.7	2008.0
77.5°	101.0	108.4	147.8	221.7	377.0	266.1	170.0	596.2	751.5	973.2	877.1
80°	59.1	61.6	88.7	152.8	253.8	197.1	108.4	211.9	256.2	362.2	234.1
82.5°	34.5	37.0	56.7	103.5	165.1	152.8	69.0	108.4	120.7	138.0	49.3
85°	12.3	12.3	39.4	61.6	88.7	76.4	39.4	56.7	61.6	76.4	14.8
87.5°	2.5	2.5	19.7	32.0	32.0	12.3	19.7	24.6	29.6	41.9	4.9
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°	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8
2.5°	840.2	832.8	825.4	815.5	808.1	793.3	786.0	776.1	773.6	768.7	766.2
5°	859.9	847.6	830.3	805.7	790.9	768.7	753.9	739.1	736.7	731.8	729.3
7.5°	887.0	874.7	852.5	825.4	800.7	778.6	761.3	739.1	717.0	699.7	699.7
10°	931.3	916.5	887.0	862.3	832.8	786.0	704.7	630.7	583.9	554.4	544.5
12.5°	985.5	965.8	933.8	904.2	847.6	699.7	574.1	478.0	399.1	362.2	354.8
15°	1042.2	1024.9	992.9	948.6	778.6	583.9	418.8	271.0	194.6	160.1	165.1
17.5°	1103.8	1079.2	1042.2	953.5	684.9	436.1	224.2	138.0	118.3	113.3	113.3
20°	1167.8	1135.8	1098.9	899.3	564.2	251.3	128.1	103.5	96.1	88.7	91.2
22.5°	1236.8	1197.4	1140.7	818.0	404.1	135.5	98.6	83.8	73.9	71.5	71.5
25°	1310.8	1254.1	1182.6	724.4	234.1	103.5	81.3	66.5	59.1	56.7	54.2
27.5°	1389.6	1318.1	1192.5	601.2	133.0	86.2	64.1	51.7	44.3	41.9	41.9
30°	1461.0	1382.2	1170.3	446.0	101.0	71.5	51.7	39.4	34.5	34.5	34.5
32.5°	1557.1	1453.7	1101.3	278.4	81.3	56.7	39.4	32.0	27.1	27.1	27.1
35°	1682.8	1559.6	1032.3	147.8	66.5	46.8	32.0	24.6	22.2	22.2	22.2
37.5°	1855.3	1700.0	970.7	93.6	54.2	37.0	24.6	19.7	17.2	17.2	17.2
40°	2032.6	1867.6	884.5	71.5	44.3	29.6	19.7	14.8	12.3	12.3	14.8
42.5°	2254.4	2062.2	786.0	61.6	37.0	24.6	14.8	9.9	7.4	9.9	9.9
45°	2478.6	2266.7	648.0	51.7	32.0	19.7	9.9	4.9	4.9	7.4	7.4
47.5°	2710.2	2483.5	502.6	44.3	27.1	14.8	7.4	2.5	2.5	4.9	4.9
50°	2949.2	2697.9	374.5	39.4	22.2	12.3	4.9	2.5	0.0	2.5	2.5
52.5°	3188.2	2904.8	290.7	34.5	19.7	9.9	2.5	0.0	0.0	0.0	2.5
55°	3409.9	3092.1	231.6	29.6	17.2	7.4	2.5	0.0	0.0	0.0	0.0
57.5°	3597.2	3230.1	184.8	27.1	14.8	4.9	2.5	0.0	0.0	0.0	0.0
60°	3774.6	3338.5	142.9	22.2	12.3	4.9	2.5	0.0	0.0	0.0	0.0
62.5°	3900.2	3380.4	115.8	19.7	9.9	4.9	0.0	0.0	0.0	0.0	0.0
64°	3954.4	3385.3	101.0	17.2	9.9	4.9	2.5	0.0	0.0	0.0	0.0
65°	3986.5	3370.5	93.6	17.2	9.9	4.9	2.5	0.0	0.0	0.0	0.0
67.5°	3993.8	3289.2	71.5	14.8	7.4	2.5	2.5	0.0	0.0	0.0	0.0
70°	3777.0	3005.9	51.7	9.9	4.9	2.5	0.0	0.0	0.0	0.0	0.0
72.5°	3156.1	2296.3	34.5	7.4	4.9	2.5	0.0	0.0	0.0	0.0	0.0
75°	1971.1	992.9	19.7	7.4	2.5	2.5	0.0	0.0	0.0	0.0	0.0
77.5°	815.5	300.6	12.3	4.9	2.5	2.5	0.0	0.0	0.0	0.0	0.0
80°	187.3	71.5	4.9	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	44.3	12.3	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0
85°	9.9	2.5	2.5	2.5	2.5	0.0	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)