

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: P594787

Luminaire Tested: **ISS-PA1E-730-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594787
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-730-U-T2U-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 3000K, 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: 7007 lumens
Efficiency: N/A
Efficacy: 85.0 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

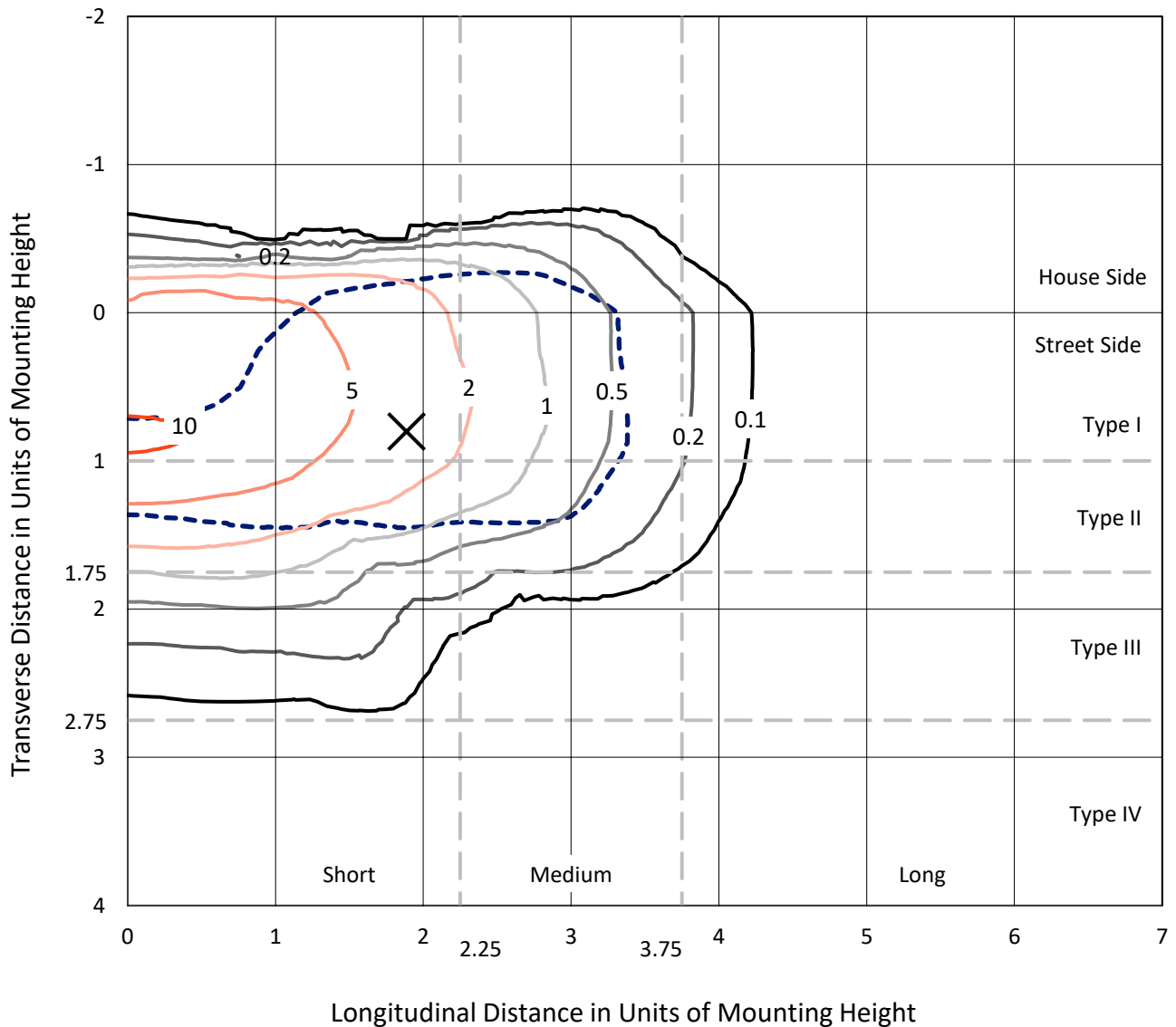
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

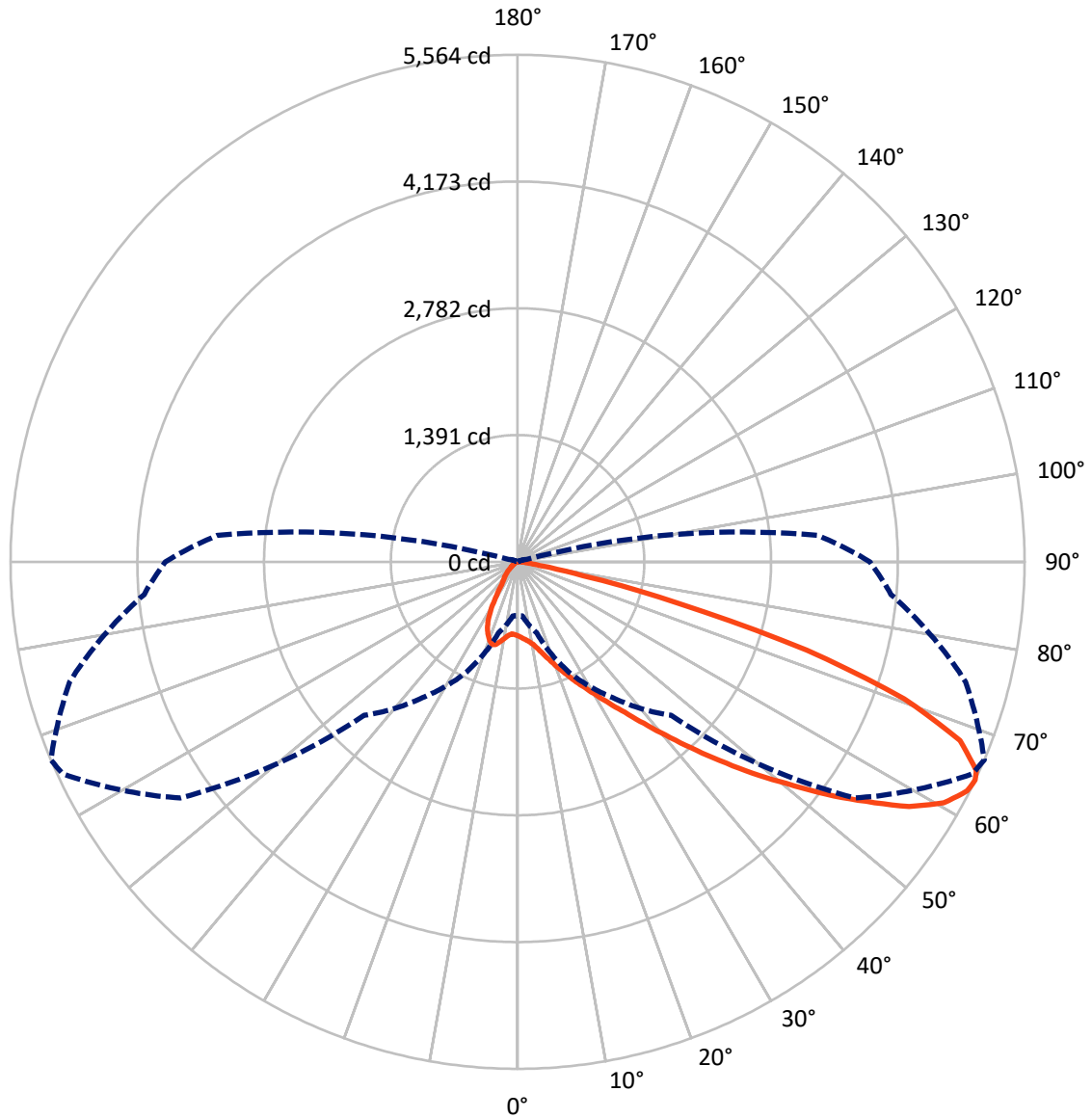
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 10.8 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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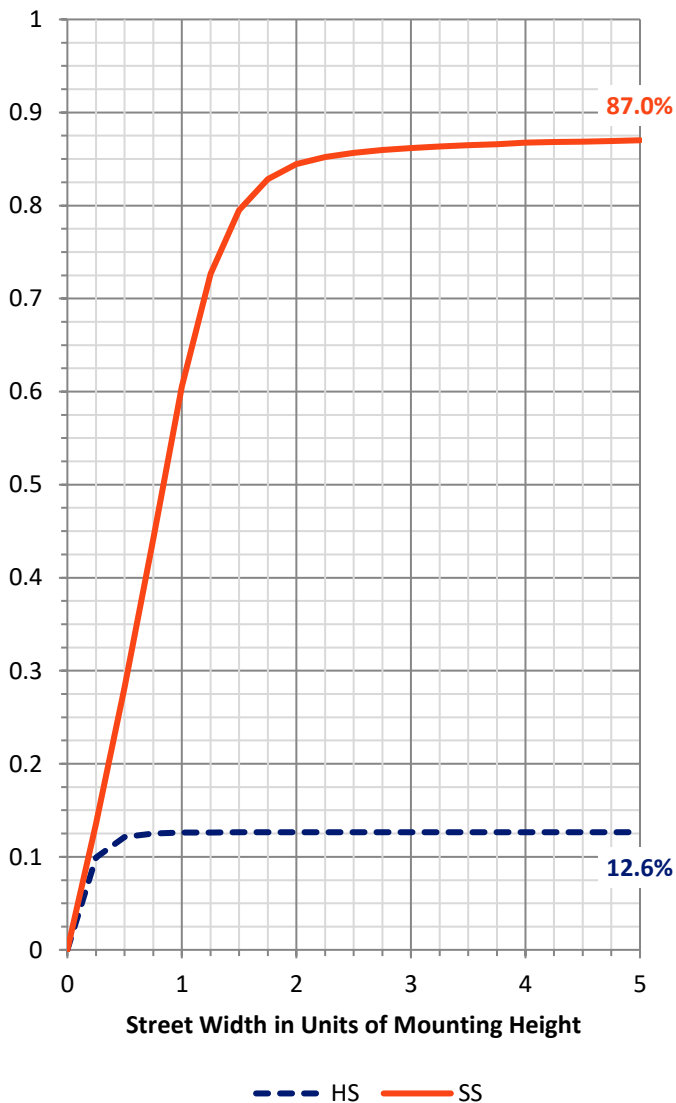
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	896.3	0.0	896.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	6110.7	0.0	6110.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	7007.0	0.0	7007.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	1.1
10°-20°	228.0	3.3
20°-30°	413.6	5.9
30°-40°	792.3	11.3
40°-50°	1460.3	20.8
50°-60°	1886.1	26.9
60°-70°	1544.9	22.0
70°-80°	567.9	8.1
80°-90°	36.6	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°	7007.0	100.0
0°-180°	7007.0	100.0

Coefficient of Utilization



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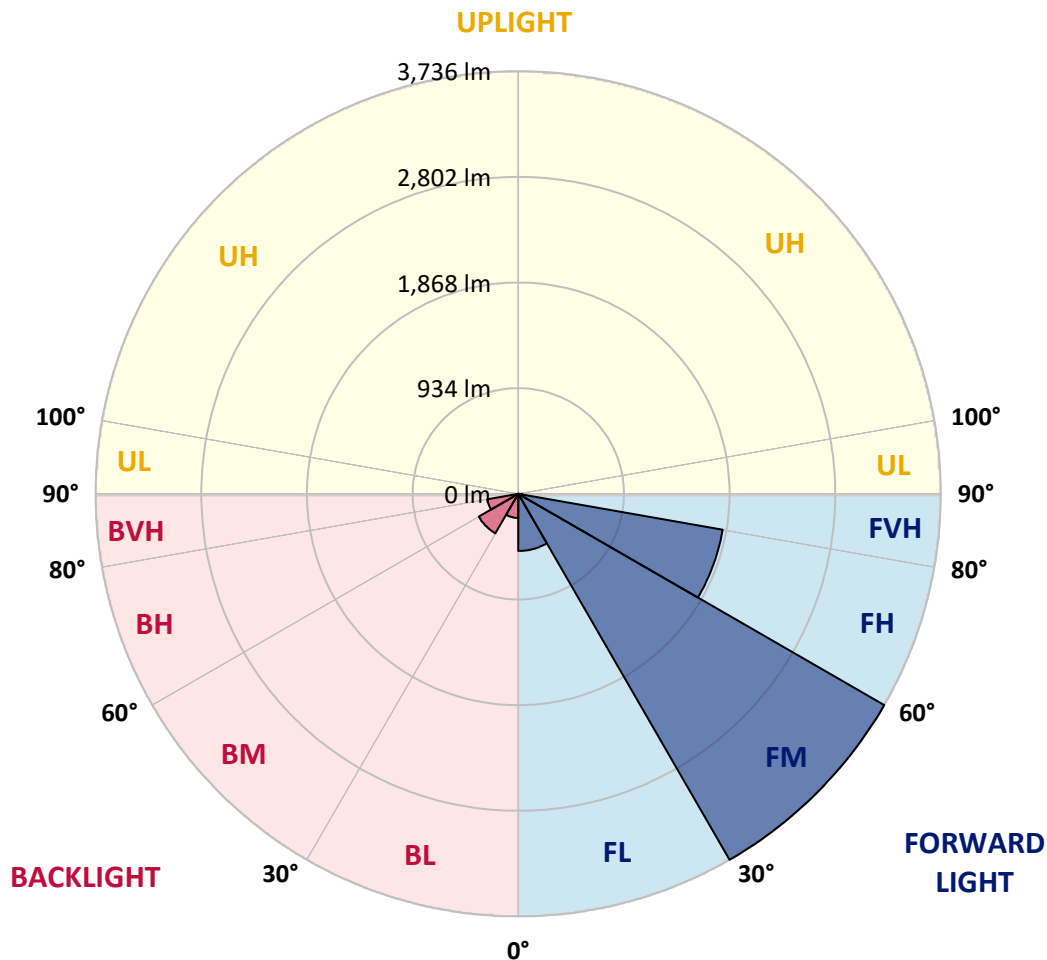
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	505.2	7.2			
FM (30°-60°)	3735.7	53.3			
FH (60°-80°)	1834.7	26.2			G2/5000
FVH (80°-90°)	35.0	0.5			G1/100
BL (0°-30°)	213.6	3.0	B1/500		
BM (30°-60°)	403.0	5.8	B1/1000		
BH (60°-80°)	278.1	4.0	B1/500		G1/500
BVH (80°-90°)	1.6	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°	814.2	814.2	814.2	814.2	814.2	814.2	814.2	814.2	814.2	814.2	814.2
2.5°	843.1	843.1	847.9	845.5	845.5	840.7	833.4	835.9	833.4	831.0	823.8
5°	828.6	831.0	833.4	838.3	847.9	852.7	852.7	855.1	855.1	852.7	843.1
7.5°	821.4	826.2	831.0	835.9	847.9	855.1	867.2	881.6	881.6	884.0	874.4
10°	847.9	852.7	859.9	867.2	879.2	891.3	900.9	917.8	917.8	922.6	920.2
12.5°	903.3	903.3	905.7	910.5	927.4	941.8	958.7	973.2	975.6	978.0	970.8
15°	970.8	970.8	973.2	973.2	982.8	1004.5	1035.8	1050.2	1047.8	1045.4	1031.0
17.5°	1047.8	1047.8	1047.8	1050.2	1055.1	1067.1	1103.2	1132.1	1129.7	1127.3	1098.4
20°	1120.1	1124.9	1129.7	1132.1	1137.0	1146.6	1185.1	1218.9	1226.1	1216.5	1165.9
22.5°	1202.0	1204.4	1206.8	1214.0	1226.1	1230.9	1269.4	1320.0	1327.3	1315.2	1247.8
25°	1283.9	1288.7	1295.9	1305.6	1317.6	1341.7	1368.2	1435.7	1442.9	1428.4	1336.9
27.5°	1464.6	1462.1	1440.5	1423.6	1426.0	1442.9	1479.0	1551.3	1558.5	1544.0	1426.0
30°	1772.9	1744.0	1703.0	1628.4	1556.1	1563.3	1613.9	1683.8	1695.8	1676.5	1524.8
32.5°	2211.3	2182.4	2081.2	1917.4	1758.4	1705.4	1770.5	1837.9	1852.4	1830.7	1640.4
35°	2637.7	2630.4	2534.1	2336.5	2066.8	1919.8	1936.7	2023.4	2028.2	2001.7	1784.9
37.5°	3165.2	3138.7	3006.2	2784.6	2466.6	2204.1	2155.9	2237.8	2249.8	2218.5	1960.8
40°	3514.5	3504.8	3425.3	3268.8	2926.7	2596.7	2423.3	2502.8	2500.3	2454.6	2163.1
42.5°	3716.8	3721.6	3716.8	3642.1	3447.0	3068.8	2777.4	2782.2	2789.4	2741.2	2396.8
45°	3854.1	3854.1	3861.3	3921.5	3846.9	3632.5	3208.5	3100.1	3109.8	3035.1	2640.1
47.5°	3851.7	3866.1	3904.7	4044.4	4145.6	4157.6	3748.1	3471.1	3466.3	3353.1	2890.6
50°	3591.5	3581.9	3740.9	4054.0	4357.5	4591.2	4258.8	3863.7	3822.8	3683.1	3150.7
52.5°	3006.2	3037.5	3302.5	3762.6	4408.1	4885.1	4699.6	4292.5	4239.5	4010.7	3379.6
55°	2495.5	2529.3	2787.0	3237.4	4133.5	4988.7	4995.9	4747.8	4641.8	4294.9	3615.6
57.5°	1874.1	1939.1	2319.7	2743.6	3531.3	4730.9	5101.9	5183.8	5068.1	4569.5	3808.3
60°	1197.2	1235.7	1662.1	2184.8	2861.7	4056.4	5080.2	5436.7	5374.1	4820.0	3969.7
62.5°	782.9	804.5	1098.4	1645.2	2180.0	3056.8	4822.4	5537.9	5537.9	4988.7	4090.2
64°	590.2	595.0	804.5	1336.9	1818.7	2382.3	4518.9	5506.5	5564.4	5089.8	4114.3
65°	467.3	469.7	628.7	1110.5	1633.2	1953.5	4254.0	5439.1	5533.0	5128.4	4128.7
67.5°	327.6	334.8	407.1	640.7	1170.7	1127.3	3153.1	5121.1	5236.8	5140.4	4109.4
70°	284.2	293.9	342.1	419.1	835.9	655.2	1676.5	4364.8	4502.1	4788.7	3825.2
72.5°	216.8	228.8	286.6	354.1	587.8	443.2	648.0	3100.1	3316.9	3702.3	3158.0
75°	156.6	161.4	212.0	289.1	411.9	342.1	279.4	1599.5	1818.7	2184.8	1963.2
77.5°	98.8	106.0	144.5	216.8	368.5	260.2	166.2	582.9	734.7	951.5	857.5
80°	57.8	60.2	86.7	149.3	248.1	192.7	106.0	207.2	250.5	354.1	228.8
82.5°	33.7	36.1	55.4	101.2	161.4	149.3	67.4	106.0	118.0	134.9	48.2
85°	12.0	12.0	38.5	60.2	86.7	74.7	38.5	55.4	60.2	74.7	14.5
87.5°	2.4	2.4	19.3	31.3	31.3	12.0	19.3	24.1	28.9	40.9	4.8
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°	814.2	814.2	814.2	814.2	814.2	814.2	814.2	814.2	814.2	814.2	814.2
2.5°	821.4	814.2	807.0	797.3	790.1	775.6	768.4	758.8	756.4	751.5	749.1
5°	840.7	828.6	811.8	787.7	773.2	751.5	737.1	722.6	720.2	715.4	713.0
7.5°	867.2	855.1	833.4	807.0	782.9	761.2	744.3	722.6	701.0	684.1	684.1
10°	910.5	896.1	867.2	843.1	814.2	768.4	688.9	616.7	570.9	542.0	532.3
12.5°	963.5	944.3	912.9	884.0	828.6	684.1	561.3	467.3	390.2	354.1	346.9
15°	1018.9	1002.1	970.8	927.4	761.2	570.9	409.5	265.0	190.3	156.6	161.4
17.5°	1079.1	1055.1	1018.9	932.2	669.6	426.4	219.2	134.9	115.6	110.8	110.8
20°	1141.8	1110.5	1074.3	879.2	551.6	245.7	125.3	101.2	93.9	86.7	89.1
22.5°	1209.2	1170.7	1115.3	799.7	395.0	132.5	96.4	81.9	72.3	69.9	69.9
25°	1281.5	1226.1	1156.2	708.2	228.8	101.2	79.5	65.0	57.8	55.4	53.0
27.5°	1358.6	1288.7	1165.9	587.8	130.1	84.3	62.6	50.6	43.4	40.9	40.9
30°	1428.4	1351.3	1144.2	436.0	98.8	69.9	50.6	38.5	33.7	33.7	33.7
32.5°	1522.4	1421.2	1076.7	272.2	79.5	55.4	38.5	31.3	26.5	26.5	26.5
35°	1645.2	1524.8	1009.3	144.5	65.0	45.8	31.3	24.1	21.7	21.7	21.7
37.5°	1813.8	1662.1	949.1	91.5	53.0	36.1	24.1	19.3	16.9	16.9	16.9
40°	1987.3	1825.9	864.8	69.9	43.4	28.9	19.3	14.5	12.0	12.0	14.5
42.5°	2204.1	2016.2	768.4	60.2	36.1	24.1	14.5	9.6	7.2	9.6	9.6
45°	2423.3	2216.1	633.5	50.6	31.3	19.3	9.6	4.8	4.8	7.2	7.2
47.5°	2649.7	2428.1	491.4	43.4	26.5	14.5	7.2	2.4	2.4	4.8	4.8
50°	2883.3	2637.7	366.1	38.5	21.7	12.0	4.8	2.4	0.0	2.4	2.4
52.5°	3117.0	2840.0	284.2	33.7	19.3	9.6	2.4	0.0	0.0	0.0	2.4
55°	3333.8	3023.1	226.4	28.9	16.9	7.2	2.4	0.0	0.0	0.0	0.0
57.5°	3516.9	3158.0	180.7	26.5	14.5	4.8	2.4	0.0	0.0	0.0	0.0
60°	3690.3	3263.9	139.7	21.7	12.0	4.8	2.4	0.0	0.0	0.0	0.0
62.5°	3813.2	3304.9	113.2	19.3	9.6	4.8	0.0	0.0	0.0	0.0	0.0
64°	3866.1	3309.7	98.8	16.9	9.6	4.8	2.4	0.0	0.0	0.0	0.0
65°	3897.5	3295.3	91.5	16.9	9.6	4.8	2.4	0.0	0.0	0.0	0.0
67.5°	3904.7	3215.8	69.9	14.5	7.2	2.4	2.4	0.0	0.0	0.0	0.0
70°	3692.7	2938.8	50.6	9.6	4.8	2.4	0.0	0.0	0.0	0.0	0.0
72.5°	3085.7	2245.0	33.7	7.2	4.8	2.4	0.0	0.0	0.0	0.0	0.0
75°	1927.1	970.8	19.3	7.2	2.4	2.4	0.0	0.0	0.0	0.0	0.0
77.5°	797.3	293.9	12.0	4.8	2.4	2.4	0.0	0.0	0.0	0.0	0.0
80°	183.1	69.9	4.8	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	43.4	12.0	2.4	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0
85°	9.6	2.4	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	2.4	2.4	2.4	2.4	2.4	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)