

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: P594881

Luminaire Tested: **ISS-PA1F-735-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1F-735-U-T4W-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8064 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

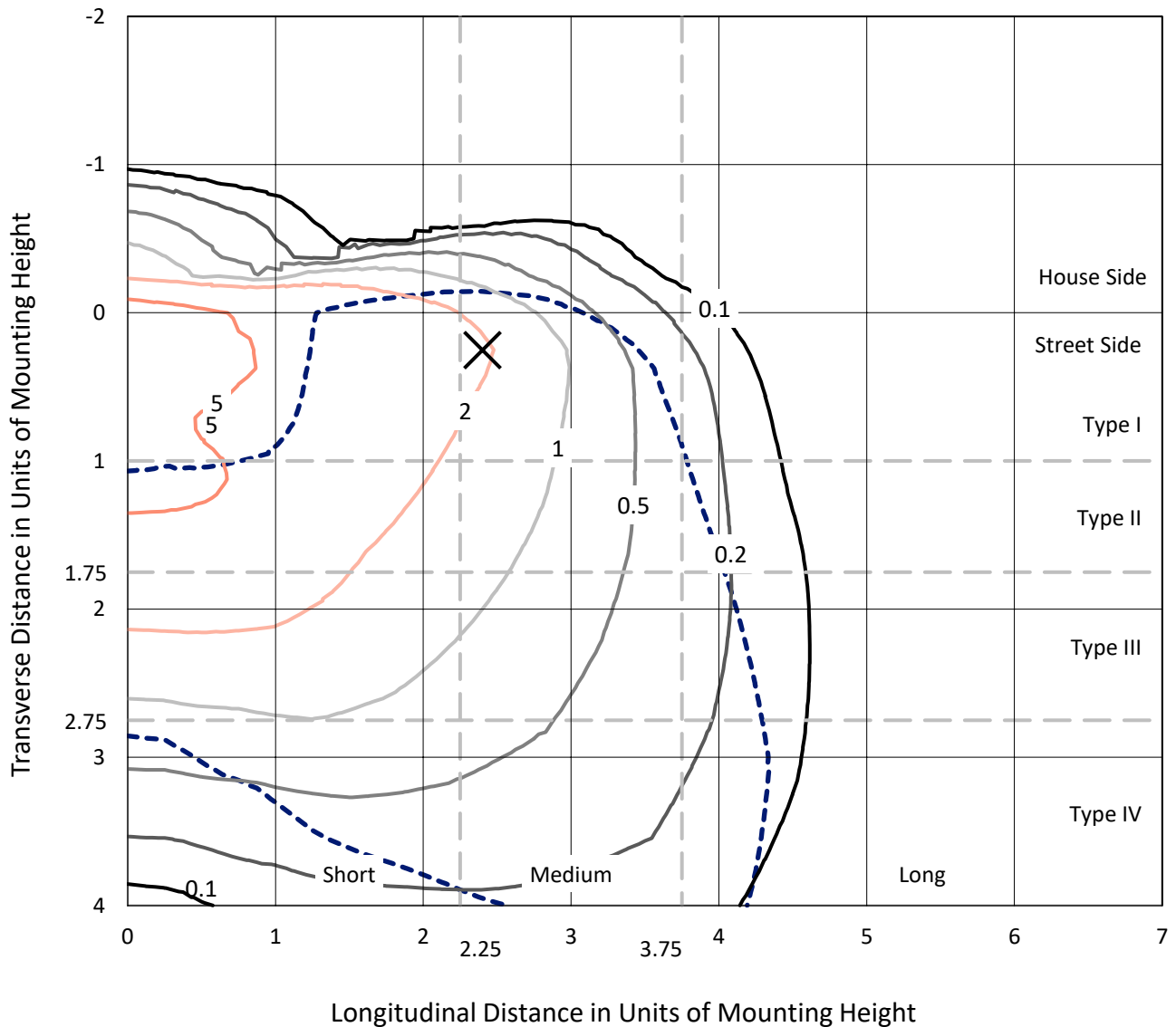
Input Watts (W): 94.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P594881
 CATALOG NUMBER: ISS-PA1F-735-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

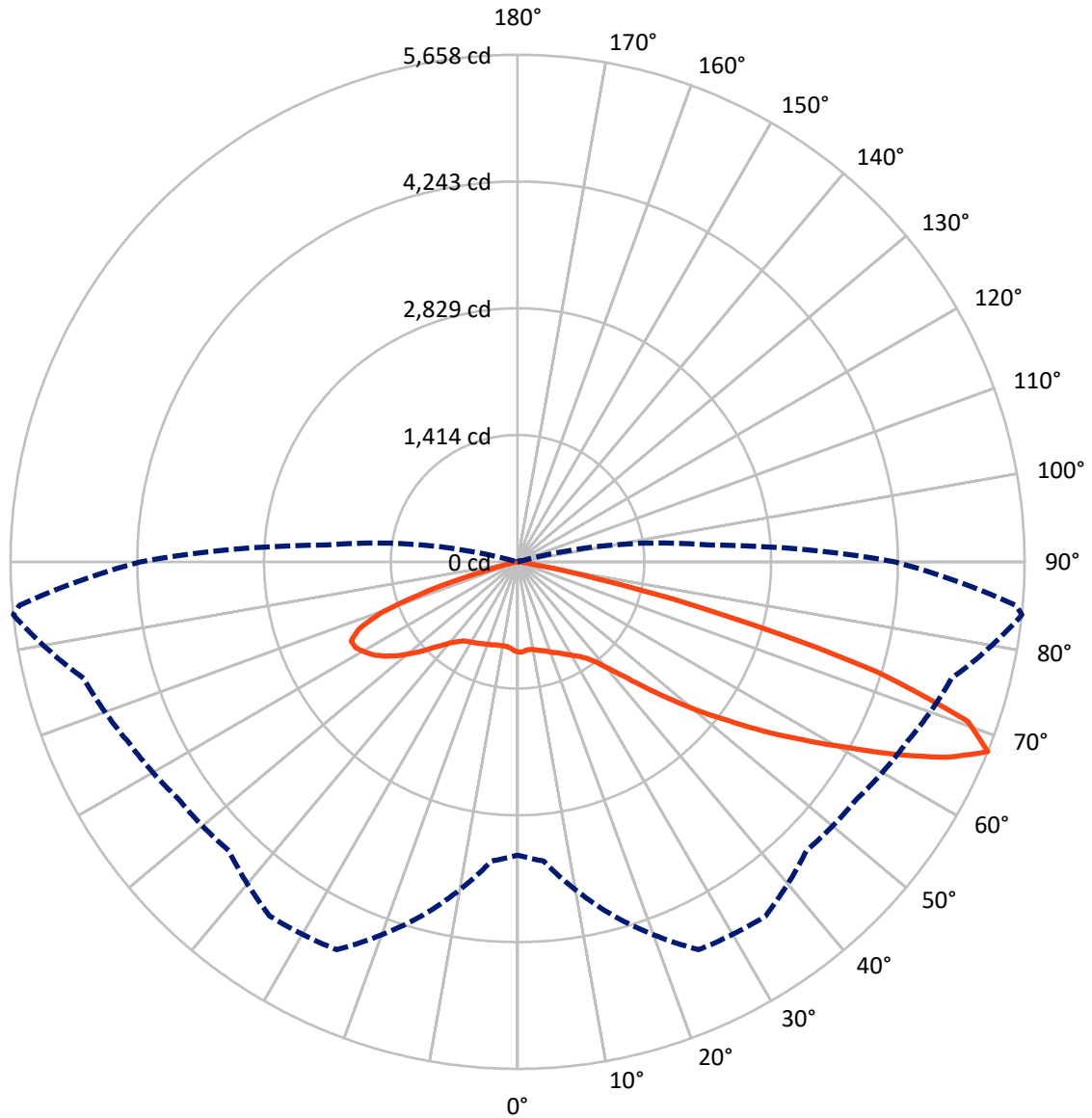
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Medium - N/A

REPORT NUMBER: P594881
CATALOG NUMBER: ISS-PA1F-735-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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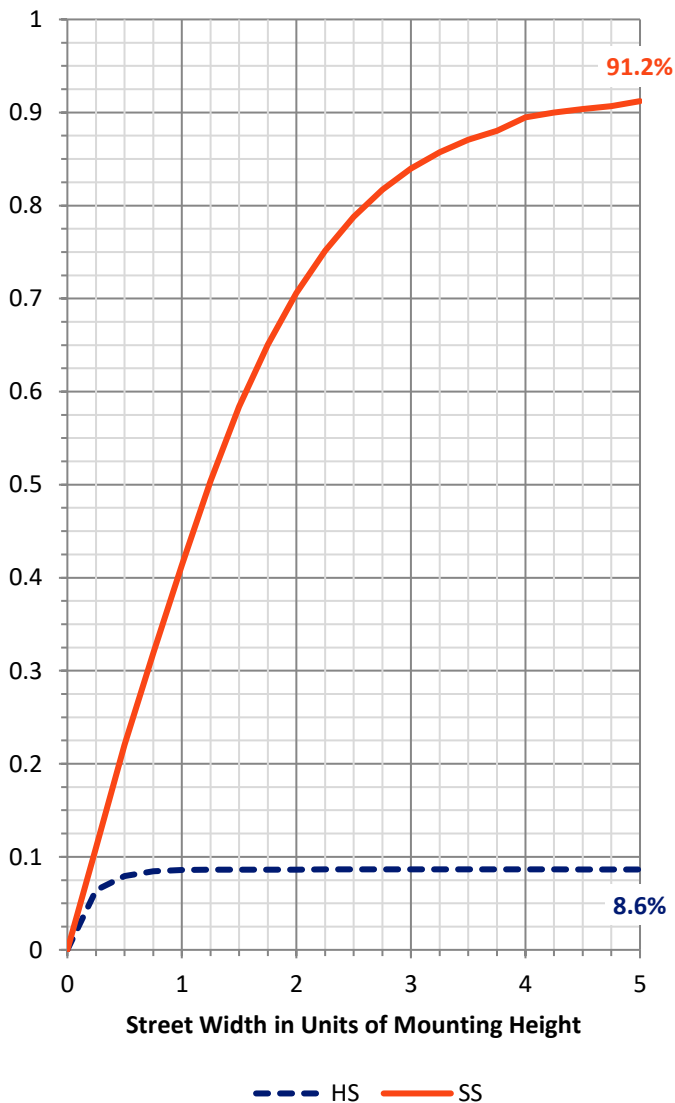
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	702.1	0.0	702.1
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	7361.9	0.0	7361.9
	% Fixture	91.3	0.0	91.3
Total	Lumens	8064.0	0.0	8064.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.1	1.1
10°-20°	235.6	2.9
20°-30°	377.4	4.7
30°-40°	543.1	6.7
40°-50°	932.1	11.6
50°-60°	1628.6	20.2
60°-70°	2332.2	28.9
70°-80°	1752.9	21.7
80°-90°	172.0	2.1
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°	8064.0	100.0
0°-180°	8064.0	100.0

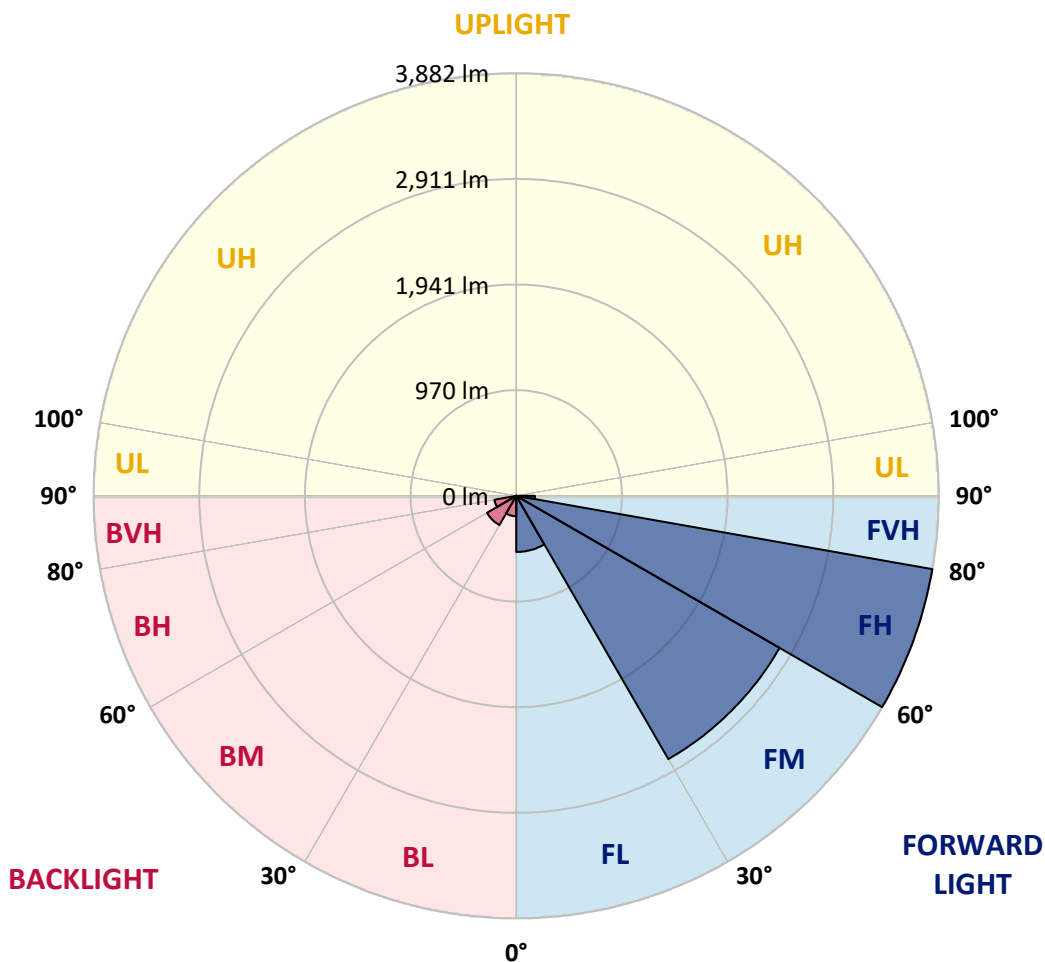


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 CATALOG NUMBER: ISS-PA1F-735-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	515.5	6.4			
FM (30°-60°)	2793.3	34.6			
FH (60°-80°)	3881.6	48.1			G2/5000
FVH (80°-90°)	171.5	2.1			G2/225
BL (0°-30°)	187.5	2.3	B1/500		
BM (30°-60°)	310.5	3.9	B1/1000		
BH (60°-80°)	203.6	2.5	B1/500		G1/500
BVH (80°-90°)	0.5	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7
2.5°	1061.9	1067.3	1070.0	1056.4	1056.4	1045.5	1029.2	1023.7	1015.6	1007.4	1004.7
5°	1116.3	1124.5	1121.8	1105.4	1097.2	1075.5	1053.7	1031.9	1010.1	991.1	991.1
7.5°	1178.9	1181.7	1173.5	1146.3	1129.9	1100.0	1067.3	1042.8	1015.6	988.3	982.9
10°	1233.4	1230.7	1219.8	1192.5	1162.6	1124.5	1089.1	1061.9	1029.2	996.5	993.8
12.5°	1271.5	1274.2	1260.6	1222.5	1192.5	1149.0	1113.6	1086.4	1048.2	1012.8	1004.7
15°	1304.2	1312.3	1296.0	1257.9	1214.3	1176.2	1149.0	1113.6	1070.0	1029.2	1023.7
17.5°	1334.1	1336.8	1323.2	1279.7	1238.8	1206.2	1176.2	1143.5	1100.0	1048.2	1042.8
20°	1350.5	1358.6	1350.5	1296.0	1257.9	1233.4	1208.9	1176.2	1127.2	1078.2	1072.7
22.5°	1361.4	1369.5	1366.8	1306.9	1274.2	1255.2	1233.4	1203.4	1157.1	1100.0	1094.5
25°	1366.8	1372.2	1377.7	1317.8	1290.6	1282.4	1263.3	1236.1	1192.5	1132.6	1127.2
27.5°	1375.0	1380.4	1385.9	1331.4	1320.5	1312.3	1306.9	1285.1	1233.4	1170.8	1162.6
30°	1388.6	1396.7	1402.2	1355.9	1355.9	1364.1	1364.1	1334.1	1276.9	1211.6	1206.2
32.5°	1404.9	1407.6	1418.5	1380.4	1394.0	1413.1	1407.6	1377.7	1317.8	1257.9	1249.7
35°	1448.5	1448.5	1467.5	1418.5	1434.9	1451.2	1456.6	1434.9	1380.4	1320.5	1317.8
37.5°	1554.7	1554.7	1571.0	1492.0	1489.3	1505.7	1524.7	1524.7	1470.3	1415.8	1410.4
40°	1794.3	1794.3	1794.3	1611.8	1581.9	1600.9	1630.9	1647.2	1600.9	1562.8	1562.8
42.5°	2194.5	2197.2	2156.4	1832.4	1704.4	1737.1	1769.8	1805.2	1780.6	1753.4	1748.0
45°	2608.3	2594.7	2589.3	2156.4	1922.2	1905.9	1946.7	2006.6	2014.8	1998.5	2009.4
47.5°	2891.5	2905.1	2913.3	2559.3	2227.2	2115.5	2153.7	2238.1	2287.1	2284.3	2300.7
50°	3166.5	3174.7	3182.8	3003.1	2630.1	2379.6	2404.1	2518.5	2586.6	2608.3	2619.2
52.5°	3406.1	3384.3	3419.7	3395.2	3057.6	2681.9	2681.9	2812.6	2935.1	2943.2	2940.5
55°	3476.9	3490.5	3596.7	3670.2	3495.9	3052.1	2997.7	3136.6	3267.2	3335.3	3335.3
57.5°	3634.8	3648.4	3776.4	3942.5	3814.5	3417.0	3335.3	3471.4	3613.0	3743.7	3762.8
60°	3841.7	3844.5	3980.6	4233.8	4056.8	3746.4	3678.4	3833.6	3975.1	4198.4	4261.0
62.5°	3953.4	3964.3	4152.1	4484.3	4361.8	4035.0	4018.7	4160.3	4342.7	4734.8	4792.0
65°	3781.8	3852.6	4261.0	4634.0	4609.5	4304.6	4361.8	4476.1	4685.8	5260.3	5314.7
67.5°	3272.7	3351.6	4081.3	4775.6	4824.6	4557.8	4617.7	4783.8	5015.2	5657.8	5581.5
70°	3014.0	3079.4	3645.7	4854.6	5004.3	4841.0	4868.2	5023.4	5091.5	5325.6	5243.9
72.5°	2284.3	2352.4	3084.8	4585.0	5159.5	5137.7	5069.7	4941.7	4538.7	4190.2	3991.5
75°	1010.1	1089.1	2052.9	3583.1	4775.6	5306.5	4947.2	4231.1	3259.1	2379.6	2205.4
77.5°	446.5	492.8	795.0	1990.3	3588.5	4593.2	3912.5	2820.7	1636.3	884.9	822.3
80°	144.3	149.7	250.5	697.0	1835.1	3041.3	2396.0	1355.9	503.7	206.9	193.3
82.5°	57.2	62.6	119.8	294.1	759.6	1208.9	1176.2	490.1	147.0	54.5	54.5
85°	16.3	19.1	59.9	155.2	269.5	340.3	416.6	163.4	79.0	16.3	16.3
87.5°	5.4	5.4	21.8	49.0	51.7	35.4	79.0	62.6	49.0	5.4	5.4
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°	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7	1004.7
2.5°	999.2	993.8	980.2	969.3	963.8	955.7	944.8	939.3	939.3	936.6	928.4
5°	980.2	972.0	947.5	931.2	917.6	887.6	865.8	838.6	811.4	803.2	811.4
7.5°	972.0	955.7	923.0	890.3	833.1	754.2	702.5	645.3	626.2	601.7	604.4
10°	974.7	955.7	909.4	835.9	724.2	607.2	525.5	449.2	411.1	392.1	394.8
12.5°	982.9	961.1	895.8	762.4	601.7	460.1	334.9	275.0	264.1	264.1	264.1
15°	999.2	966.6	874.0	675.2	471.0	304.9	236.9	231.4	239.6	247.8	250.5
17.5°	1015.6	982.9	841.3	585.4	343.1	228.7	220.5	220.5	228.7	236.9	239.6
20°	1034.6	999.2	795.0	490.1	245.0	215.1	212.4	209.6	215.1	223.3	226.0
22.5°	1064.6	1015.6	740.6	378.5	212.4	206.9	201.5	198.8	201.5	209.6	212.4
25°	1091.8	1037.3	683.4	280.4	198.8	193.3	190.6	187.9	187.9	193.3	196.0
27.5°	1124.5	1061.9	620.8	209.6	182.4	179.7	177.0	174.3	171.5	177.0	179.7
30°	1165.3	1083.6	552.7	177.0	166.1	163.4	160.6	157.9	155.2	157.9	160.6
32.5°	1217.0	1113.6	473.8	160.6	152.5	144.3	141.6	141.6	138.9	138.9	141.6
35°	1285.1	1146.3	389.3	149.7	138.9	130.7	122.5	119.8	119.8	119.8	122.5
37.5°	1385.9	1206.2	307.7	138.9	128.0	114.4	106.2	98.0	98.0	98.0	98.0
40°	1524.7	1271.5	239.6	130.7	119.8	100.7	89.8	79.0	73.5	70.8	73.5
42.5°	1739.8	1369.5	185.1	119.8	114.4	89.8	73.5	59.9	49.0	46.3	49.0
45°	1976.7	1475.7	147.0	111.6	103.5	76.2	57.2	40.8	29.9	27.2	29.9
47.5°	2276.2	1609.1	125.2	100.7	89.8	62.6	40.8	21.8	13.6	16.3	16.3
50°	2564.8	1739.8	114.4	92.6	79.0	51.7	24.5	10.9	5.4	8.2	8.2
52.5°	2883.3	1878.7	106.2	81.7	68.1	38.1	13.6	2.7	0.0	2.7	2.7
55°	3204.6	2003.9	98.0	73.5	54.5	27.2	5.4	0.0	0.0	0.0	2.7
57.5°	3553.1	2110.1	89.8	62.6	40.8	16.3	2.7	0.0	0.0	0.0	0.0
60°	3844.5	2191.8	81.7	54.5	27.2	8.2	0.0	0.0	0.0	0.0	0.0
62.5°	4111.3	2265.3	62.6	40.8	16.3	5.4	0.0	0.0	0.0	0.0	0.0
65°	4288.3	2281.6	43.6	27.2	10.9	2.7	0.0	0.0	0.0	0.0	0.0
67.5°	4209.3	2140.0	27.2	19.1	5.4	2.7	0.0	0.0	0.0	0.0	0.0
70°	3700.2	1797.0	19.1	10.9	2.7	2.7	0.0	0.0	0.0	0.0	0.0
72.5°	2589.3	1159.9	16.3	8.2	2.7	2.7	0.0	0.0	0.0	0.0	0.0
75°	1366.8	419.3	10.9	5.4	2.7	2.7	0.0	0.0	0.0	0.0	0.0
77.5°	484.6	92.6	5.4	2.7	0.0	2.7	0.0	0.0	0.0	0.0	0.0
80°	106.2	19.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	29.9	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	0.0	0.0	0.0	0.0	0.0	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)