

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: P594791

Luminaire Tested: **ISS-PA1E-730-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594791
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-PA1E-730-U-T4W-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 3000K, 1050mA 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: 7193 lumens
Efficiency: N/A
Efficacy: 87.3 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

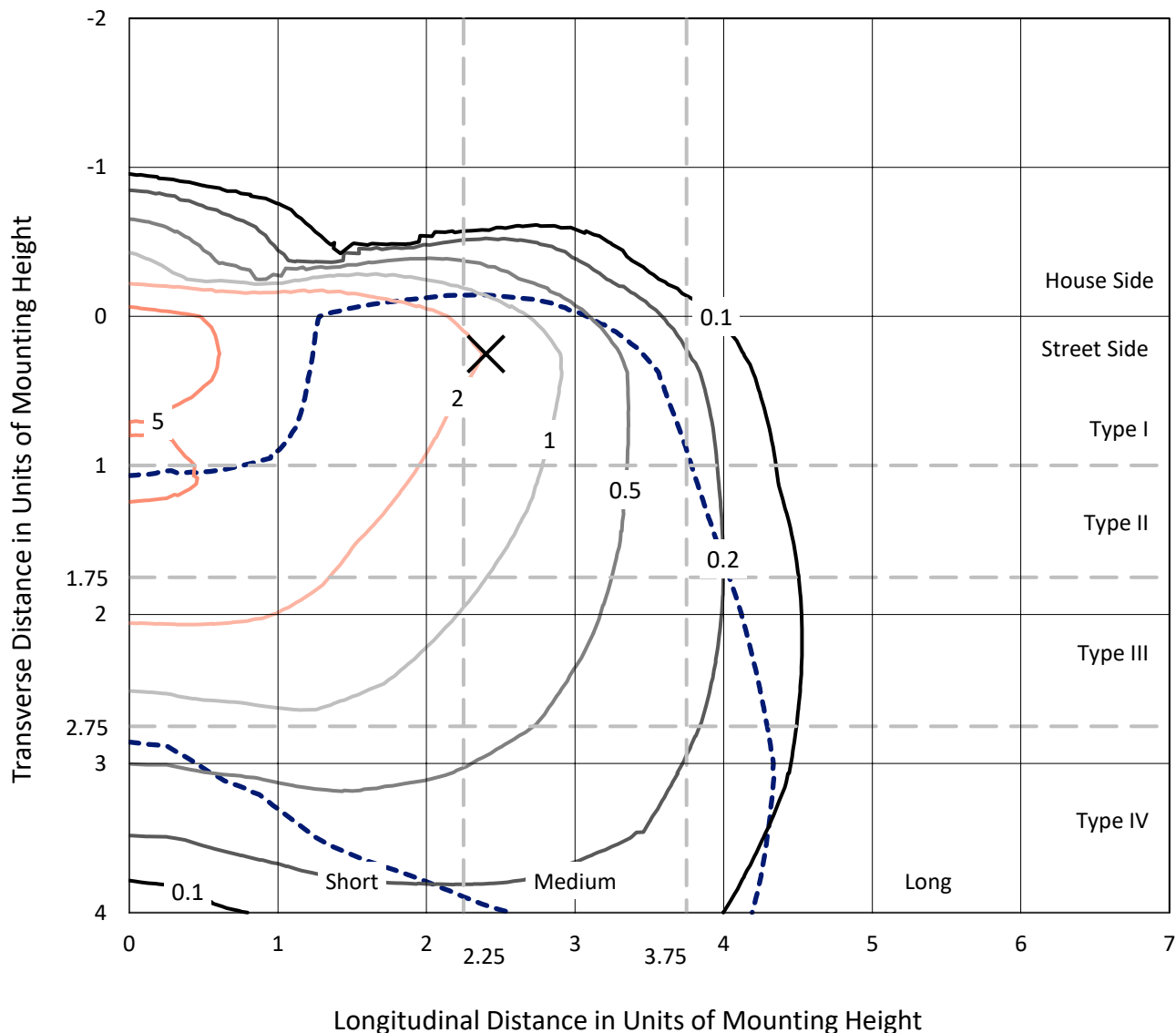
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P594791
 CATALOG NUMBER: ISS-PA1E-730-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

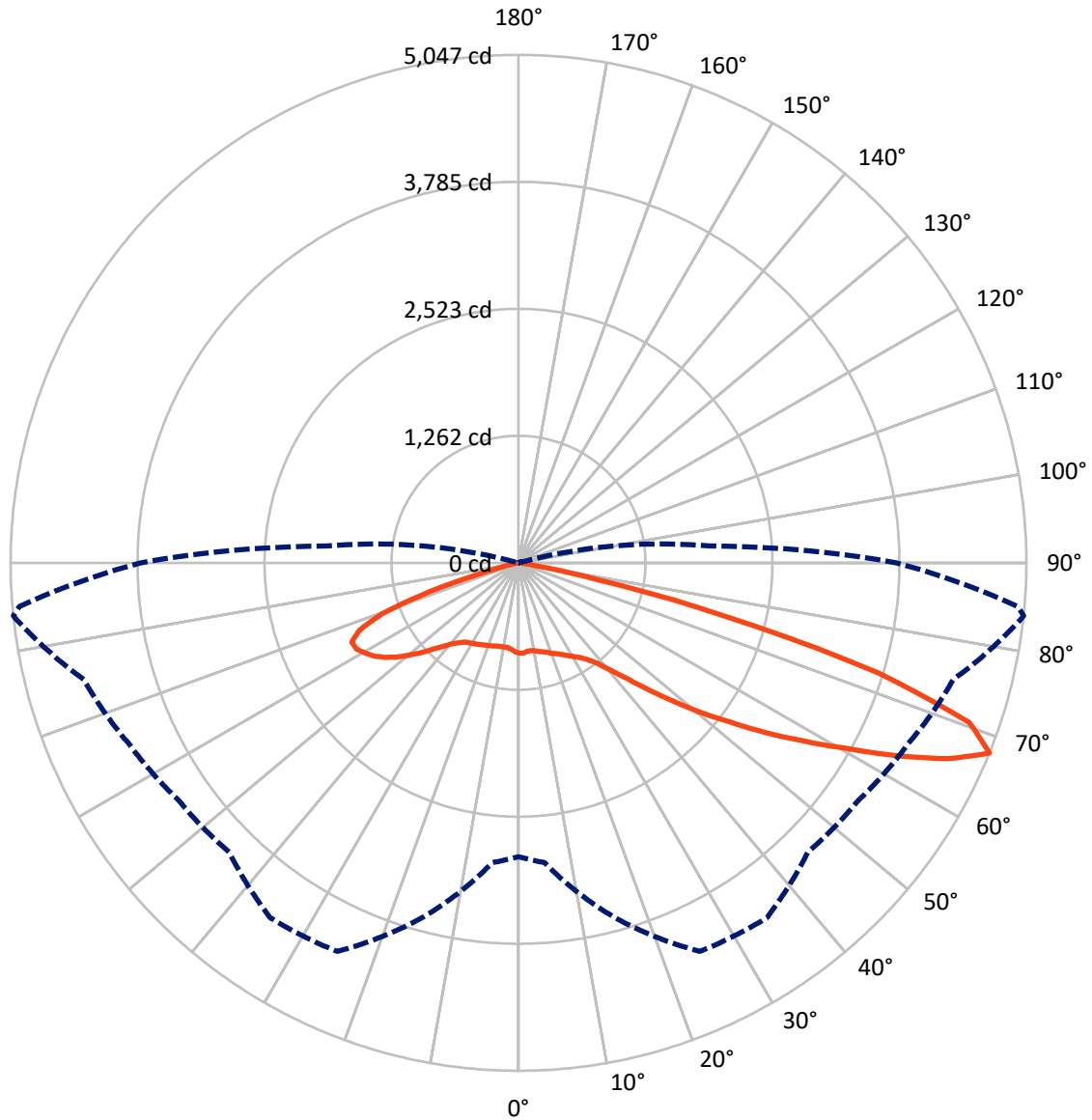
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Medium - N/A

REPORT NUMBER: P594791
CATALOG NUMBER: ISS-PA1E-730-U-T4W-HSS

Luminous Intensity Polar Plot



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

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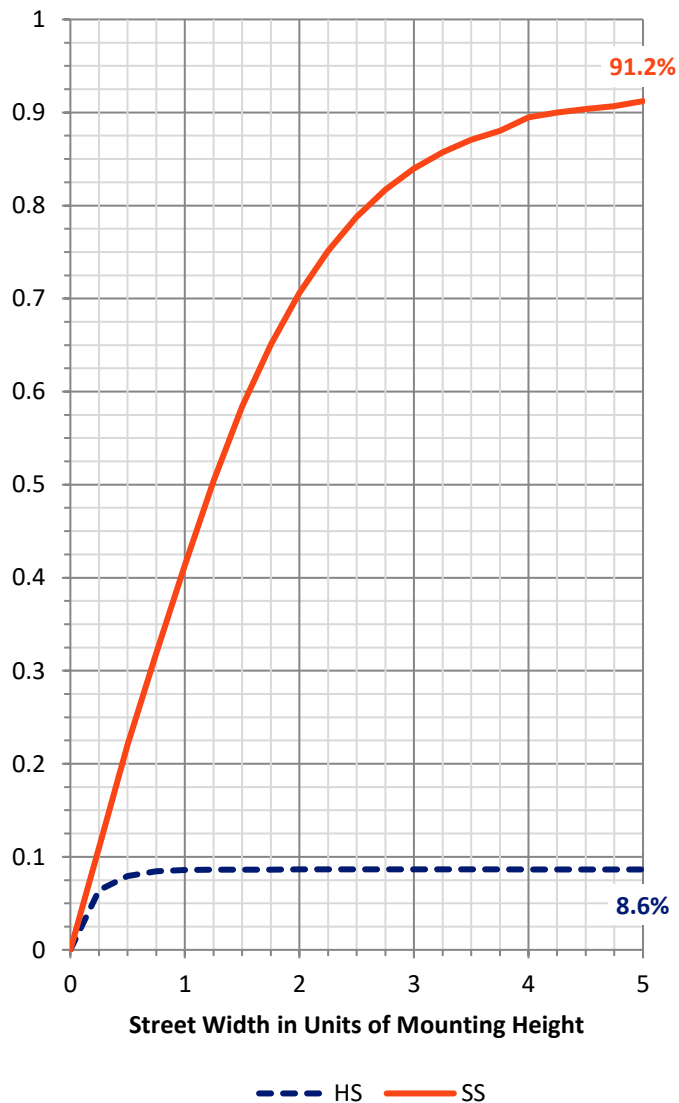
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	626.3	0.0	626.3
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	6566.7	0.0	6566.7
	% Fixture	91.3	0.0	91.3
Total	Lumens	7193.0	0.0	7193.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	1.1
10°-20°	210.2	2.9
20°-30°	336.6	4.7
30°-40°	484.4	6.7
40°-50°	831.5	11.6
50°-60°	1452.7	20.2
60°-70°	2080.3	28.9
70°-80°	1563.6	21.7
80°-90°	153.5	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°	7193.0	100.0
0°-180°	7193.0	100.0

Coefficient of Utilization

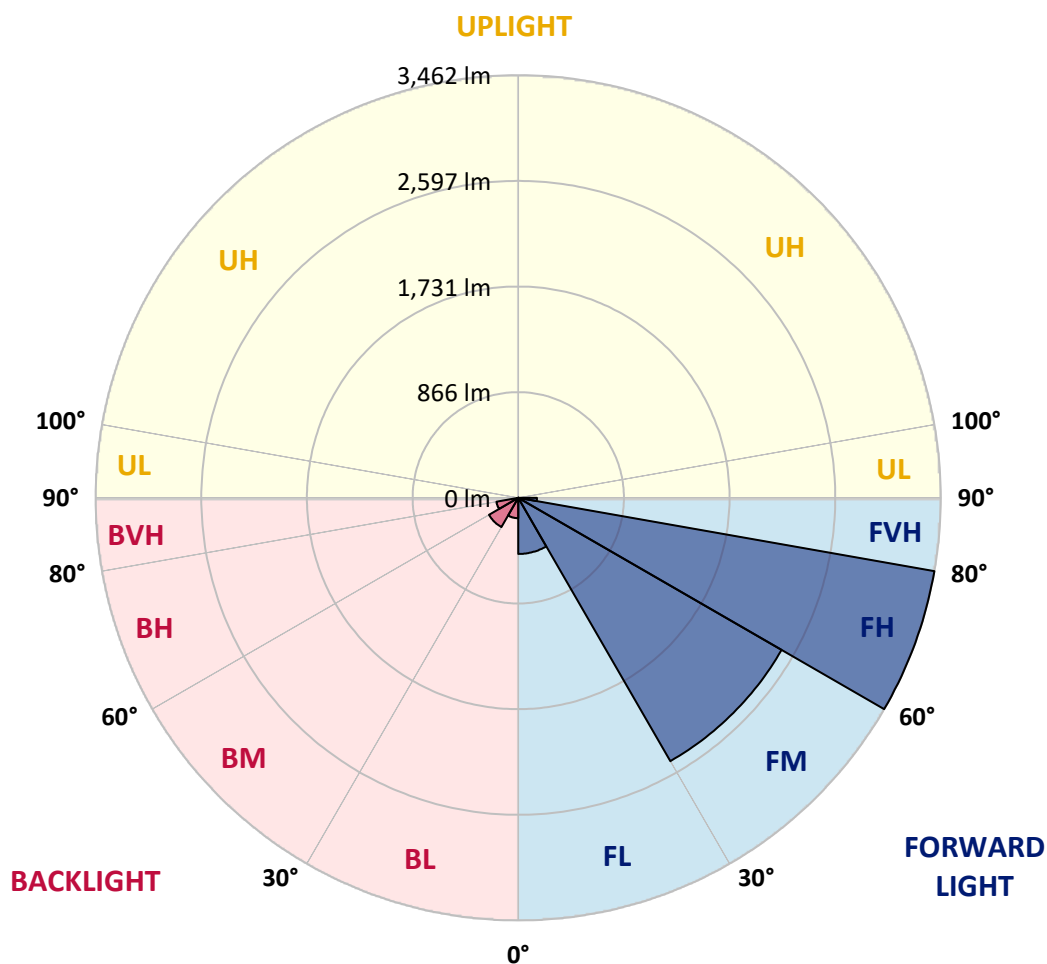


REPORT NUMBER: P594791
 CATALOG NUMBER: ISS-PA1E-730-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	459.9	6.4			
FM (30°-60°)	2491.6	34.6			
FH (60°-80°)	3462.3	48.1			G2/5000
FVH (80°-90°)	153.0	2.1			G2/225
BL (0°-30°)	167.3	2.3	B1/500		
BM (30°-60°)	277.0	3.9	B1/1000		
BH (60°-80°)	181.6	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°	896.2	896.2	896.2	896.2	896.2	896.2	896.2	896.2	896.2	896.2	896.2
2.5°	947.2	952.0	954.4	942.3	942.3	932.6	918.0	913.2	905.9	898.6	896.2
5°	995.7	1003.0	1000.6	986.0	978.7	959.3	939.9	920.4	901.0	884.0	884.0
7.5°	1051.6	1054.0	1046.7	1022.4	1007.9	981.2	952.0	930.2	905.9	881.6	876.7
10°	1100.2	1097.7	1088.0	1063.7	1037.0	1003.0	971.4	947.2	918.0	888.9	886.4
12.5°	1134.2	1136.6	1124.5	1090.5	1063.7	1024.9	993.3	969.0	935.0	903.4	896.2
15°	1163.3	1170.6	1156.0	1122.0	1083.2	1049.2	1024.9	993.3	954.4	918.0	913.2
17.5°	1190.0	1192.5	1180.3	1141.5	1105.0	1075.9	1049.2	1020.0	981.2	935.0	930.2
20°	1204.6	1211.9	1204.6	1156.0	1122.0	1100.2	1078.3	1049.2	1005.4	961.7	956.9
22.5°	1214.3	1221.6	1219.2	1165.7	1136.6	1119.6	1100.2	1073.5	1032.2	981.2	976.3
25°	1219.2	1224.0	1228.9	1175.5	1151.2	1143.9	1126.9	1102.6	1063.7	1010.3	1005.4
27.5°	1226.5	1231.3	1236.2	1187.6	1177.9	1170.6	1165.7	1146.3	1100.2	1044.3	1037.0
30°	1238.6	1245.9	1250.7	1209.5	1209.5	1216.7	1216.7	1190.0	1139.0	1080.7	1075.9
32.5°	1253.2	1255.6	1265.3	1231.3	1243.5	1260.5	1255.6	1228.9	1175.5	1122.0	1114.7
35°	1292.0	1292.0	1309.0	1265.3	1279.9	1294.5	1299.3	1279.9	1231.3	1177.9	1175.5
37.5°	1386.7	1386.7	1401.3	1330.9	1328.5	1343.0	1360.0	1360.0	1311.5	1262.9	1258.0
40°	1600.5	1600.5	1600.5	1437.7	1411.0	1428.0	1454.7	1469.3	1428.0	1394.0	1394.0
42.5°	1957.5	1959.9	1923.5	1634.5	1520.3	1549.5	1578.6	1610.2	1588.3	1564.0	1559.2
45°	2326.6	2314.5	2309.6	1923.5	1714.6	1700.0	1736.5	1789.9	1797.2	1782.6	1792.3
47.5°	2579.2	2591.3	2598.6	2282.9	1986.6	1887.0	1921.0	1996.3	2040.0	2037.6	2052.2
50°	2824.5	2831.8	2839.1	2678.8	2346.0	2122.6	2144.5	2246.5	2307.2	2326.6	2336.3
52.5°	3038.2	3018.8	3050.3	3028.5	2727.3	2392.2	2392.2	2508.8	2618.1	2625.3	2622.9
55°	3101.3	3113.5	3208.2	3273.8	3118.3	2722.5	2673.9	2797.8	2914.3	2975.1	2975.1
57.5°	3242.2	3254.4	3368.5	3516.6	3402.5	3047.9	2975.1	3096.5	3222.8	3339.4	3356.4
60°	3426.8	3429.2	3550.6	3776.5	3618.6	3341.8	3281.1	3419.5	3545.8	3744.9	3800.8
62.5°	3526.4	3536.1	3703.6	3999.9	3890.7	3599.2	3584.6	3710.9	3873.7	4223.4	4274.4
65°	3373.4	3436.5	3800.8	4133.5	4111.7	3839.6	3890.7	3992.7	4179.7	4692.1	4740.7
67.5°	2919.2	2989.6	3640.5	4259.8	4303.5	4065.5	4118.9	4267.1	4473.5	5046.7	4978.7
70°	2688.5	2746.8	3251.9	4330.2	4463.8	4318.1	4342.4	4480.8	4541.5	4750.4	4677.5
72.5°	2037.6	2098.3	2751.6	4089.8	4602.2	4582.8	4522.1	4407.9	4048.5	3737.6	3560.4
75°	901.0	971.4	1831.2	3196.1	4259.8	4733.4	4412.8	3774.1	2907.1	2122.6	1967.2
77.5°	398.3	439.6	709.2	1775.3	3200.9	4097.1	3489.9	2516.1	1459.6	789.3	733.4
80°	128.7	133.6	223.4	621.7	1636.9	2712.8	2137.2	1209.5	449.3	184.6	172.4
82.5°	51.0	55.9	106.9	262.3	677.6	1078.3	1049.2	437.2	131.1	48.6	48.6
85°	14.6	17.0	53.4	138.4	240.4	303.6	371.6	145.7	70.4	14.6	14.6
87.5°	4.9	4.9	19.4	43.7	46.1	31.6	70.4	55.9	43.7	4.9	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°	896.2	896.2	896.2	896.2	896.2	896.2	896.2	896.2	896.2	896.2	896.2
2.5°	891.3	886.4	874.3	864.6	859.7	852.4	842.7	837.9	837.9	835.4	828.2
5°	874.3	867.0	845.2	830.6	818.4	791.7	772.3	748.0	723.7	716.4	723.7
7.5°	867.0	852.4	823.3	794.2	743.2	672.7	626.6	575.6	558.6	536.7	539.2
10°	869.4	852.4	811.2	745.6	646.0	541.6	468.7	400.7	366.7	349.7	352.2
12.5°	876.7	857.3	799.0	680.0	536.7	410.4	298.7	245.3	235.6	235.6	235.6
15°	891.3	862.2	779.6	602.3	420.2	272.0	211.3	206.4	213.7	221.0	223.4
17.5°	905.9	876.7	750.4	522.2	306.0	204.0	196.7	196.7	204.0	211.3	213.7
20°	922.9	891.3	709.2	437.2	218.6	191.9	189.4	187.0	191.9	199.1	201.6
22.5°	949.6	905.9	660.6	337.6	189.4	184.6	179.7	177.3	179.7	187.0	189.4
25°	973.9	925.3	609.6	250.1	177.3	172.4	170.0	167.6	167.6	172.4	174.9
27.5°	1003.0	947.2	553.7	187.0	162.7	160.3	157.9	155.4	153.0	157.9	160.3
30°	1039.4	966.6	493.0	157.9	148.1	145.7	143.3	140.9	138.4	140.9	143.3
32.5°	1085.6	993.3	422.6	143.3	136.0	128.7	126.3	126.3	123.9	123.9	126.3
35°	1146.3	1022.4	347.3	133.6	123.9	116.6	109.3	106.9	106.9	106.9	109.3
37.5°	1236.2	1075.9	274.4	123.9	114.1	102.0	94.7	87.4	87.4	87.4	87.4
40°	1360.0	1134.2	213.7	116.6	106.9	89.9	80.1	70.4	65.6	63.1	65.6
42.5°	1551.9	1221.6	165.1	106.9	102.0	80.1	65.6	53.4	43.7	41.3	43.7
45°	1763.2	1316.3	131.1	99.6	92.3	68.0	51.0	36.4	26.7	24.3	26.7
47.5°	2030.3	1435.3	111.7	89.9	80.1	55.9	36.4	19.4	12.1	14.6	14.6
50°	2287.8	1551.9	102.0	82.6	70.4	46.1	21.9	9.7	4.9	7.3	7.3
52.5°	2571.9	1675.7	94.7	72.9	60.7	34.0	12.1	2.4	0.0	2.4	2.4
55°	2858.5	1787.5	87.4	65.6	48.6	24.3	4.9	0.0	0.0	0.0	2.4
57.5°	3169.4	1882.2	80.1	55.9	36.4	14.6	2.4	0.0	0.0	0.0	0.0
60°	3429.2	1955.0	72.9	48.6	24.3	7.3	0.0	0.0	0.0	0.0	0.0
62.5°	3667.2	2020.6	55.9	36.4	14.6	4.9	0.0	0.0	0.0	0.0	0.0
65°	3825.1	2035.2	38.9	24.3	9.7	2.4	0.0	0.0	0.0	0.0	0.0
67.5°	3754.6	1908.9	24.3	17.0	4.9	2.4	0.0	0.0	0.0	0.0	0.0
70°	3300.5	1602.9	17.0	9.7	2.4	2.4	0.0	0.0	0.0	0.0	0.0
72.5°	2309.6	1034.6	14.6	7.3	2.4	2.4	0.0	0.0	0.0	0.0	0.0
75°	1219.2	374.0	9.7	4.9	2.4	2.4	0.0	0.0	0.0	0.0	0.0
77.5°	432.3	82.6	4.9	2.4	0.0	2.4	0.0	0.0	0.0	0.0	0.0
80°	94.7	17.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	26.7	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	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)