

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: P594868

Luminaire Tested: **ISS-PA1F-730-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594868
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-PA1F-730-U-T2U-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 3000K, 1200mA 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: 7679 lumens
Efficiency: N/A
Efficacy: 81.3 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

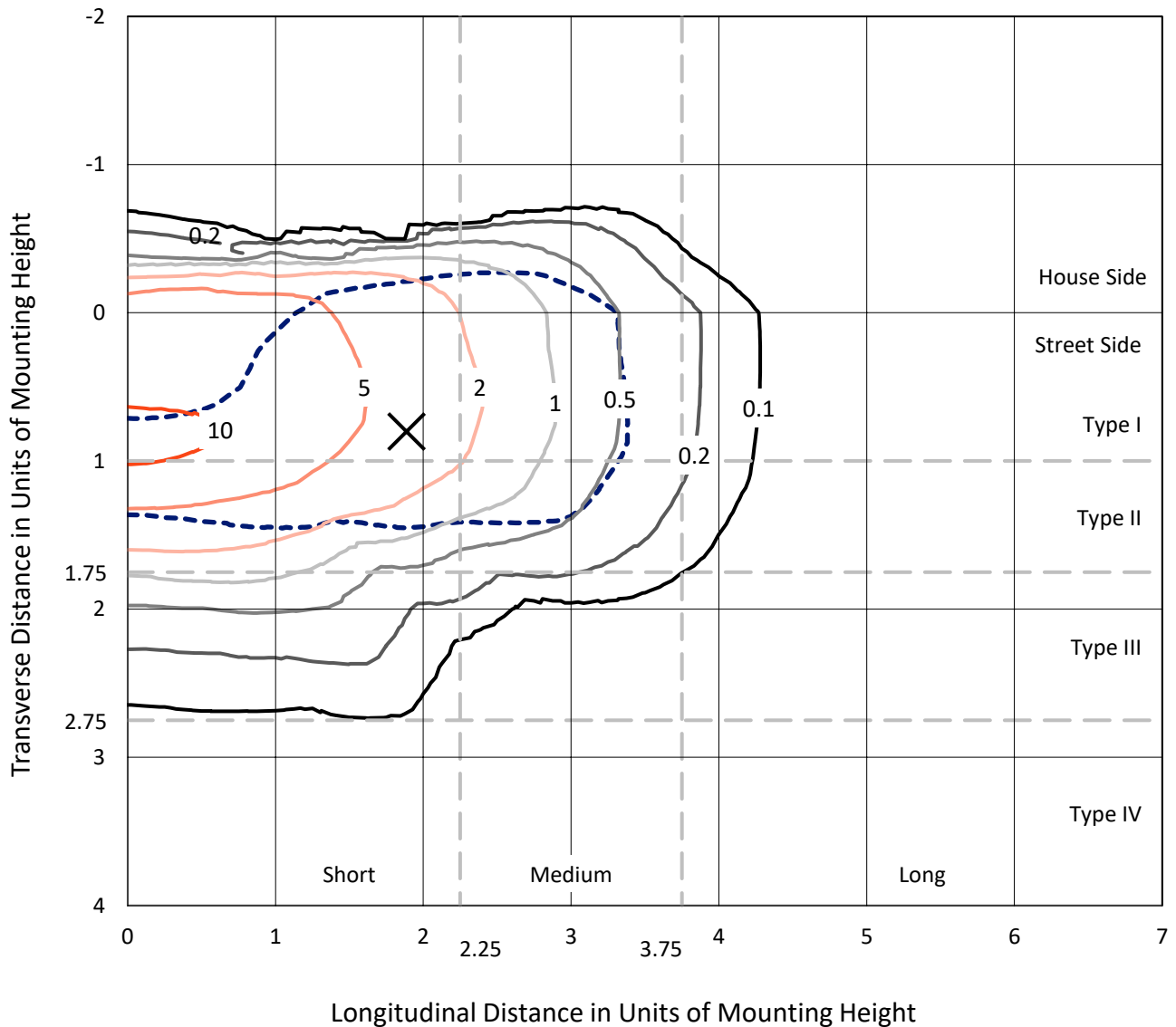
Input Watts (W): 94.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

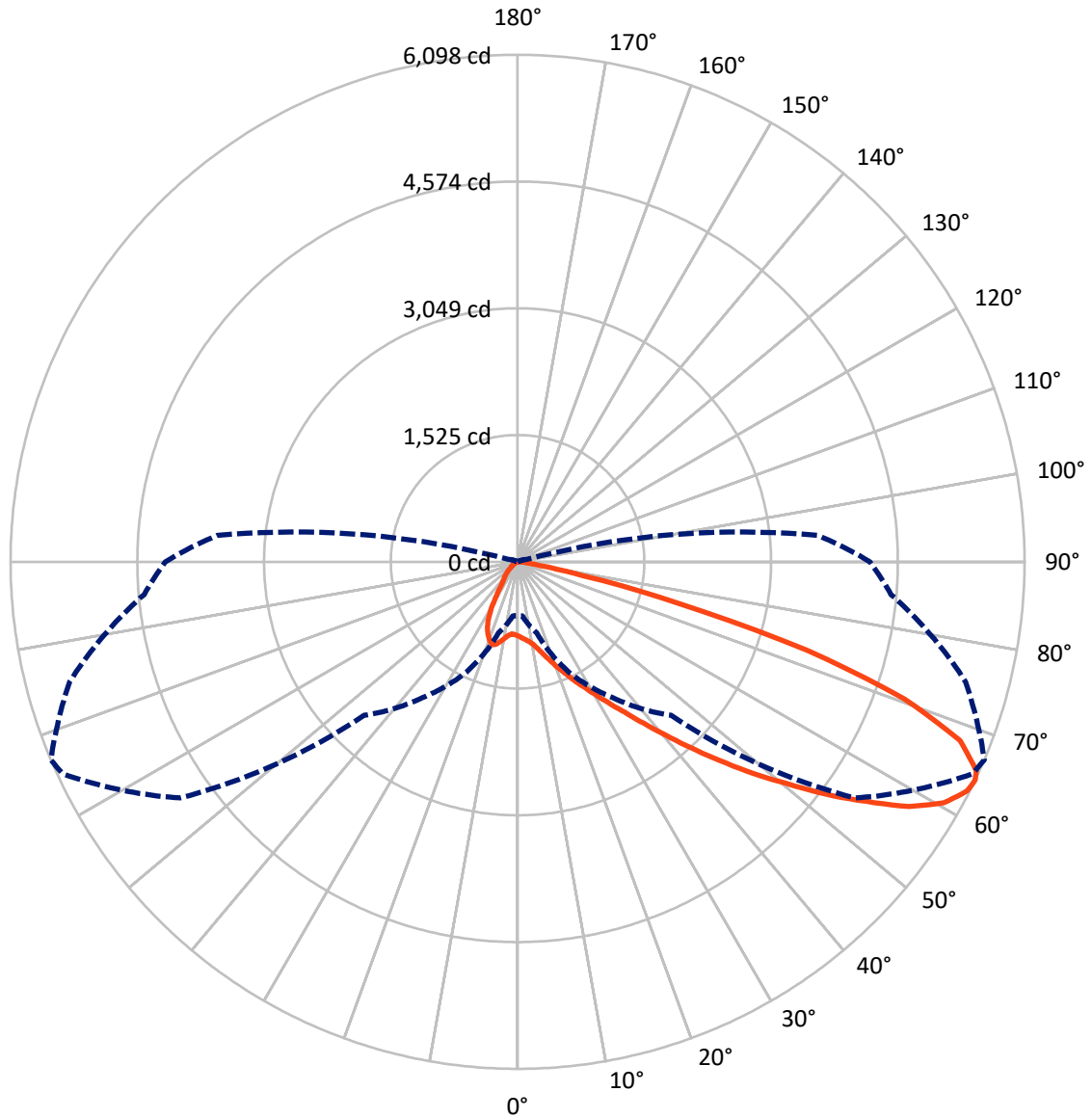
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 11.8 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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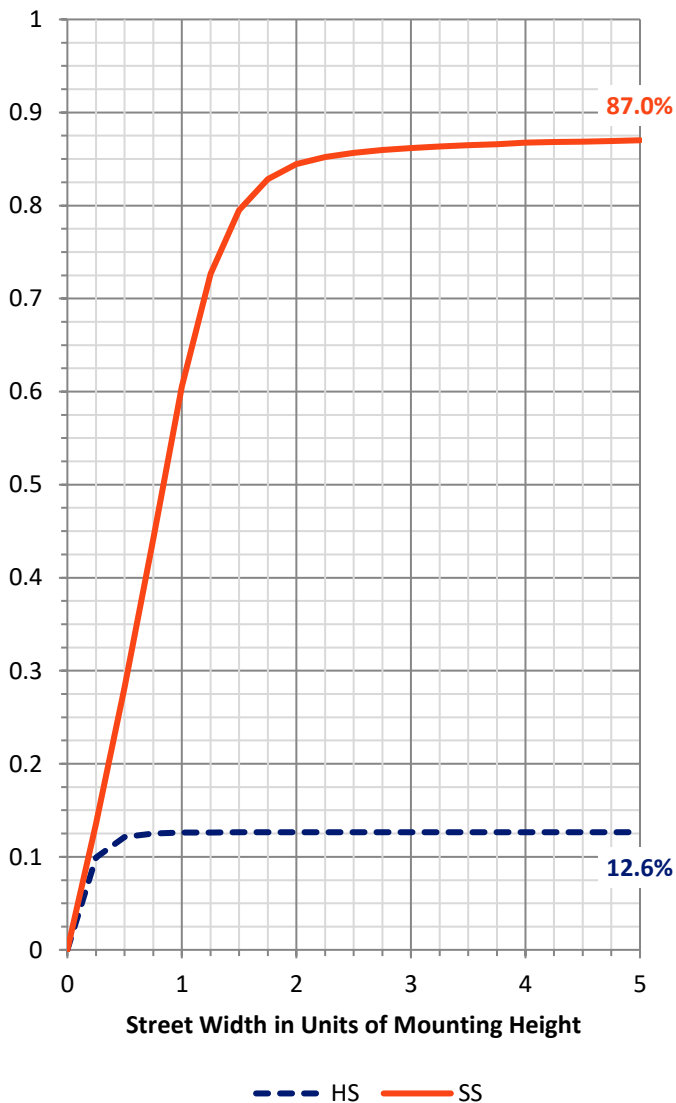
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	982.3	0.0	982.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	6696.7	0.0	6696.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	7679.0	0.0	7679.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.6	1.1
10°-20°	249.8	3.3
20°-30°	453.3	5.9
30°-40°	868.3	11.3
40°-50°	1600.3	20.8
50°-60°	2067.0	26.9
60°-70°	1693.1	22.0
70°-80°	622.4	8.1
80°-90°	40.1	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°	7679.0	100.0
0°-180°	7679.0	100.0



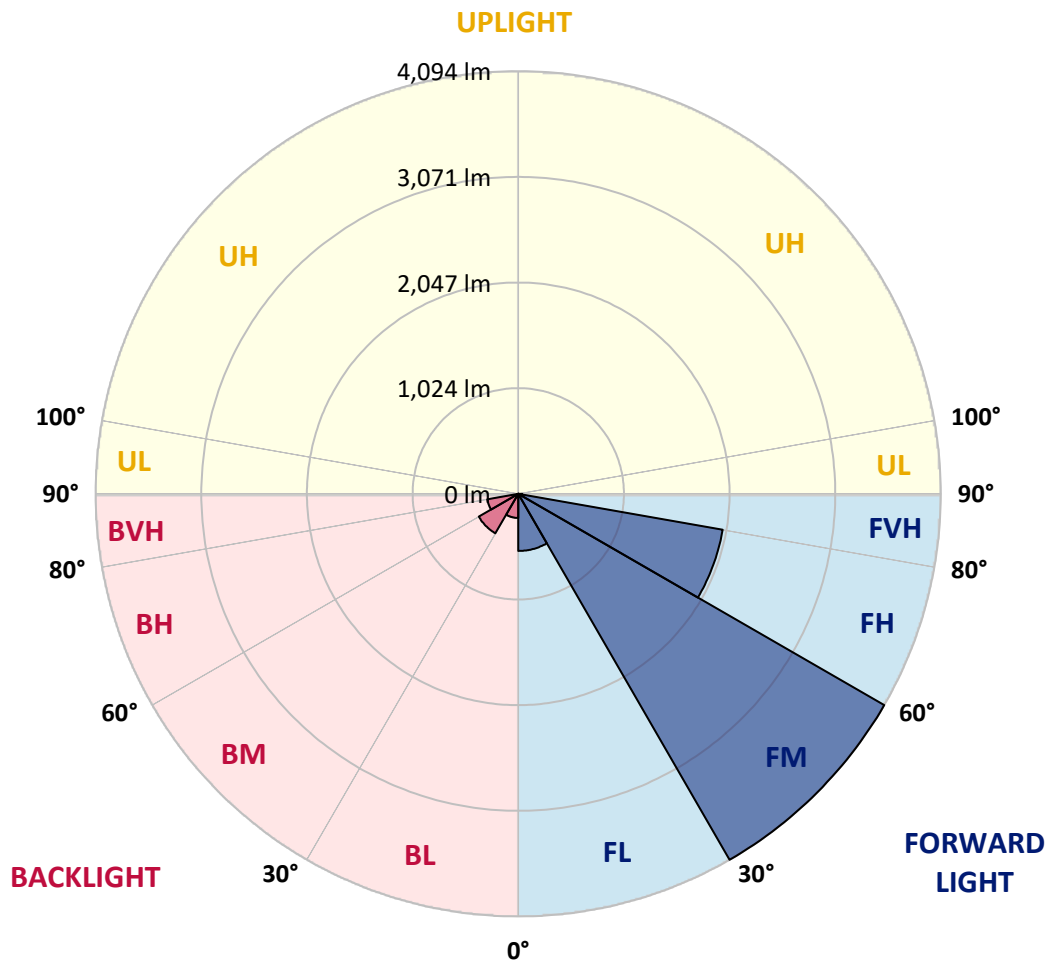
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	553.6	7.2			
FM (30°-60°)	4094.0	53.3			
FH (60°-80°)	2010.7	26.2			G2/5000
FVH (80°-90°)	38.3	0.5			G1/100
BL (0°-30°)	234.1	3.0	B1/500		
BM (30°-60°)	441.6	5.8	B1/1000		
BH (60°-80°)	304.8	4.0	B1/500		G1/500
BVH (80°-90°)	1.8	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°	892.3	892.3	892.3	892.3	892.3	892.3	892.3	892.3	892.3	892.3	892.3
2.5°	923.9	923.9	929.2	926.6	926.6	921.3	913.4	916.0	913.4	910.7	902.8
5°	908.1	910.7	913.4	918.7	929.2	934.5	934.5	937.1	937.1	934.5	923.9
7.5°	900.2	905.5	910.7	916.0	929.2	937.1	950.3	966.2	966.2	968.8	958.3
10°	929.2	934.5	942.4	950.3	963.5	976.7	987.3	1005.8	1005.8	1011.1	1008.4
12.5°	989.9	989.9	992.6	997.9	1016.3	1032.2	1050.7	1066.5	1069.1	1071.8	1063.9
15°	1063.9	1063.9	1066.5	1066.5	1077.0	1100.8	1135.1	1151.0	1148.3	1145.7	1129.8
17.5°	1148.3	1148.3	1148.3	1151.0	1156.2	1169.4	1209.0	1240.7	1238.1	1235.4	1203.8
20°	1227.5	1232.8	1238.1	1240.7	1246.0	1256.6	1298.8	1335.8	1343.7	1333.1	1277.7
22.5°	1317.3	1319.9	1322.6	1330.5	1343.7	1349.0	1391.2	1446.6	1454.5	1441.3	1367.4
25°	1407.0	1412.3	1420.2	1430.8	1444.0	1470.4	1499.4	1573.3	1581.3	1565.4	1465.1
27.5°	1605.0	1602.4	1578.6	1560.1	1562.8	1581.3	1620.9	1700.0	1708.0	1692.1	1562.8
30°	1942.9	1911.2	1866.4	1784.5	1705.3	1713.2	1768.7	1845.2	1858.4	1837.3	1671.0
32.5°	2423.4	2391.7	2280.8	2101.3	1927.1	1869.0	1940.3	2014.2	2030.0	2006.3	1797.7
35°	2890.6	2882.7	2777.1	2560.6	2265.0	2103.9	2122.4	2217.5	2222.7	2193.7	1956.1
37.5°	3468.7	3439.7	3294.5	3051.6	2703.2	2415.4	2362.6	2452.4	2465.6	2431.3	2148.8
40°	3851.5	3840.9	3753.8	3582.2	3207.4	2845.7	2655.7	2742.8	2740.1	2690.0	2370.6
42.5°	4073.3	4078.5	4073.3	3991.4	3777.6	3363.1	3043.7	3049.0	3056.9	3004.1	2626.6
45°	4223.7	4223.7	4231.6	4297.6	4215.8	3980.9	3516.3	3397.5	3408.0	3326.2	2893.3
47.5°	4221.1	4236.9	4279.2	4432.3	4543.1	4556.3	4107.6	3804.0	3798.7	3674.6	3167.8
50°	3936.0	3925.4	4099.7	4442.8	4775.4	5031.5	4667.2	4234.3	4189.4	4036.3	3452.9
52.5°	3294.5	3328.8	3619.2	4123.4	4830.9	5353.6	5150.3	4704.2	4646.1	4395.3	3703.7
55°	2734.9	2771.8	3054.3	3547.9	4529.9	5467.1	5475.0	5203.1	5086.9	4706.8	3962.4
57.5°	2053.8	2125.1	2542.2	3006.8	3870.0	5184.6	5591.2	5680.9	5554.2	5007.8	4173.6
60°	1312.0	1354.2	1821.5	2394.3	3136.1	4445.5	5567.4	5958.1	5889.5	5282.3	4350.4
62.5°	857.9	881.7	1203.8	1803.0	2389.0	3349.9	5284.9	6069.0	6069.0	5467.1	4482.4
64°	646.8	652.0	881.7	1465.1	1993.1	2610.8	4952.3	6034.6	6098.0	5578.0	4508.8
65°	512.1	514.8	689.0	1217.0	1789.8	2140.9	4661.9	5960.7	6063.7	5620.2	4524.7
67.5°	359.0	366.9	446.1	702.2	1283.0	1235.4	3455.5	5612.3	5739.0	5633.4	4503.5
70°	311.5	322.1	374.9	459.3	916.0	718.0	1837.3	4783.4	4933.8	5248.0	4192.0
72.5°	237.6	250.8	314.1	388.1	644.1	485.7	710.1	3397.5	3635.0	4057.4	3460.8
75°	171.6	176.9	232.3	316.8	451.4	374.9	306.2	1752.8	1993.1	2394.3	2151.5
77.5°	108.2	116.2	158.4	237.6	403.9	285.1	182.1	638.8	805.1	1042.7	939.8
80°	63.4	66.0	95.0	163.7	271.9	211.2	116.2	227.0	274.5	388.1	250.8
82.5°	37.0	39.6	60.7	110.9	176.9	163.7	73.9	116.2	129.4	147.8	52.8
85°	13.2	13.2	42.2	66.0	95.0	81.8	42.2	60.7	66.0	81.8	15.8
87.5°	2.6	2.6	21.1	34.3	34.3	13.2	21.1	26.4	31.7	44.9	5.3
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°	892.3	892.3	892.3	892.3	892.3	892.3	892.3	892.3	892.3	892.3	892.3
2.5°	900.2	892.3	884.3	873.8	865.9	850.0	842.1	831.5	828.9	823.6	821.0
5°	921.3	908.1	889.6	863.2	847.4	823.6	807.8	791.9	789.3	784.0	781.4
7.5°	950.3	937.1	913.4	884.3	857.9	834.2	815.7	791.9	768.2	749.7	749.7
10°	997.9	982.0	950.3	923.9	892.3	842.1	755.0	675.8	625.6	594.0	583.4
12.5°	1055.9	1034.8	1000.5	968.8	908.1	749.7	615.1	512.1	427.7	388.1	380.1
15°	1116.6	1098.2	1063.9	1016.3	834.2	625.6	448.8	290.4	208.5	171.6	176.9
17.5°	1182.6	1156.2	1116.6	1021.6	733.9	467.2	240.2	147.8	126.7	121.4	121.4
20°	1251.3	1217.0	1177.4	963.5	604.5	269.3	137.3	110.9	103.0	95.0	97.7
22.5°	1325.2	1283.0	1222.2	876.4	432.9	145.2	105.6	89.8	79.2	76.6	76.6
25°	1404.4	1343.7	1267.1	776.1	250.8	110.9	87.1	71.3	63.4	60.7	58.1
27.5°	1488.9	1412.3	1277.7	644.1	142.6	92.4	68.6	55.4	47.5	44.9	44.9
30°	1565.4	1480.9	1253.9	477.8	108.2	76.6	55.4	42.2	37.0	37.0	37.0
32.5°	1668.4	1557.5	1180.0	298.3	87.1	60.7	42.2	34.3	29.0	29.0	29.0
35°	1803.0	1671.0	1106.1	158.4	71.3	50.2	34.3	26.4	23.8	23.8	23.8
37.5°	1987.8	1821.5	1040.1	100.3	58.1	39.6	26.4	21.1	18.5	18.5	18.5
40°	2177.9	2001.0	947.7	76.6	47.5	31.7	21.1	15.8	13.2	13.2	15.8
42.5°	2415.4	2209.5	842.1	66.0	39.6	26.4	15.8	10.6	7.9	10.6	10.6
45°	2655.7	2428.6	694.3	55.4	34.3	21.1	10.6	5.3	5.3	7.9	7.9
47.5°	2903.8	2660.9	538.5	47.5	29.0	15.8	7.9	2.6	2.6	5.3	5.3
50°	3159.9	2890.6	401.3	42.2	23.8	13.2	5.3	2.6	0.0	2.6	2.6
52.5°	3415.9	3112.4	311.5	37.0	21.1	10.6	2.6	0.0	0.0	0.0	2.6
55°	3653.5	3313.0	248.1	31.7	18.5	7.9	2.6	0.0	0.0	0.0	0.0
57.5°	3854.1	3460.8	198.0	29.0	15.8	5.3	2.6	0.0	0.0	0.0	0.0
60°	4044.2	3577.0	153.1	23.8	13.2	5.3	2.6	0.0	0.0	0.0	0.0
62.5°	4178.8	3621.8	124.1	21.1	10.6	5.3	0.0	0.0	0.0	0.0	0.0
64°	4236.9	3627.1	108.2	18.5	10.6	5.3	2.6	0.0	0.0	0.0	0.0
65°	4271.2	3611.3	100.3	18.5	10.6	5.3	2.6	0.0	0.0	0.0	0.0
67.5°	4279.2	3524.2	76.6	15.8	7.9	2.6	2.6	0.0	0.0	0.0	0.0
70°	4046.9	3220.6	55.4	10.6	5.3	2.6	0.0	0.0	0.0	0.0	0.0
72.5°	3381.6	2460.3	37.0	7.9	5.3	2.6	0.0	0.0	0.0	0.0	0.0
75°	2111.9	1063.9	21.1	7.9	2.6	2.6	0.0	0.0	0.0	0.0	0.0
77.5°	873.8	322.1	13.2	5.3	2.6	2.6	0.0	0.0	0.0	0.0	0.0
80°	200.6	76.6	5.3	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	47.5	13.2	2.6	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0
85°	10.6	2.6	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	2.6	2.6	2.6	2.6	2.6	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)