

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: P594890

Luminaire Tested: **ISS-PA1F-740-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594890
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-740-U-T4W-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 4000K, 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: 8657 lumens
Efficiency: N/A
Efficacy: 91.7 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

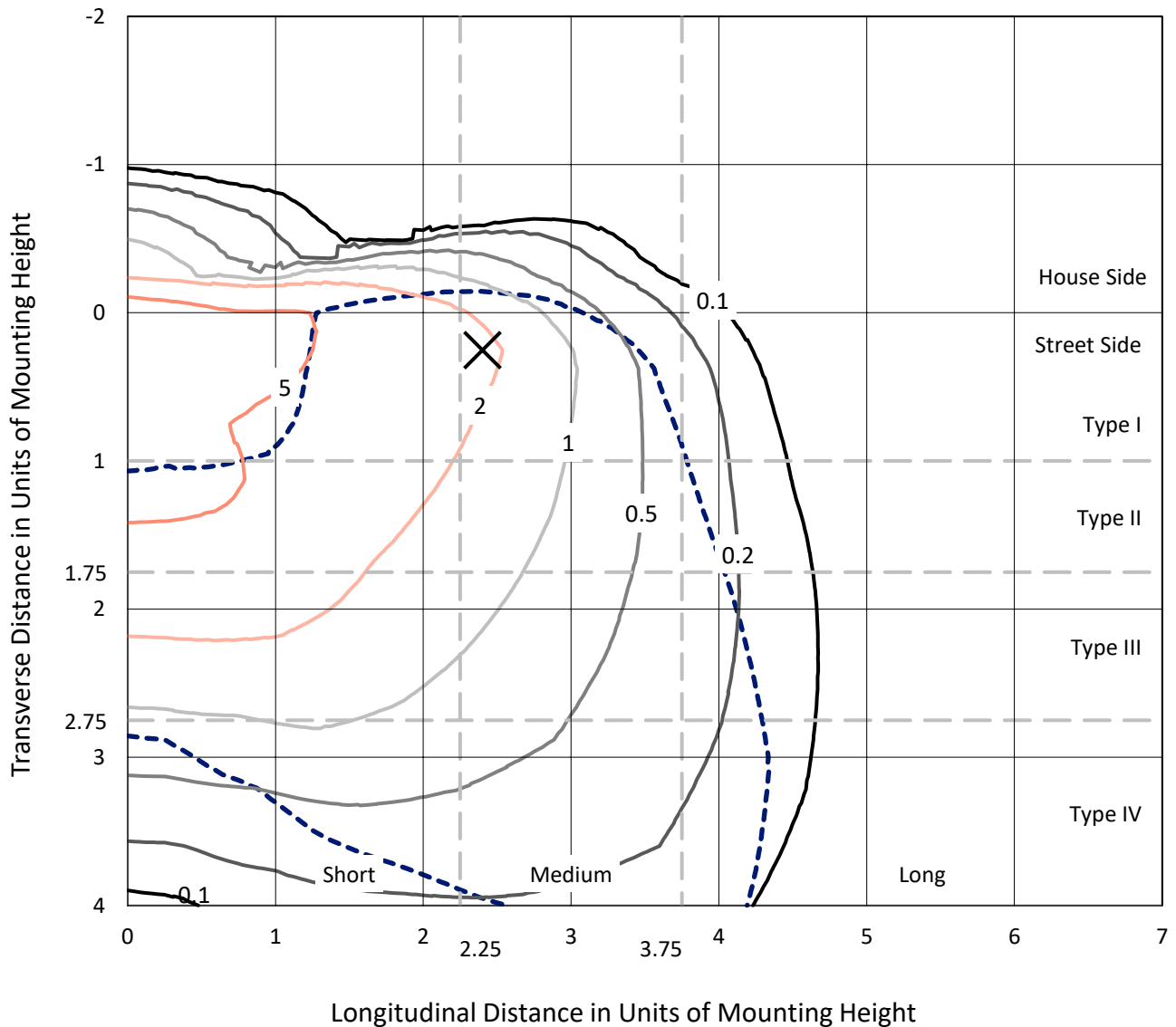
Input Watts (W): 94.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

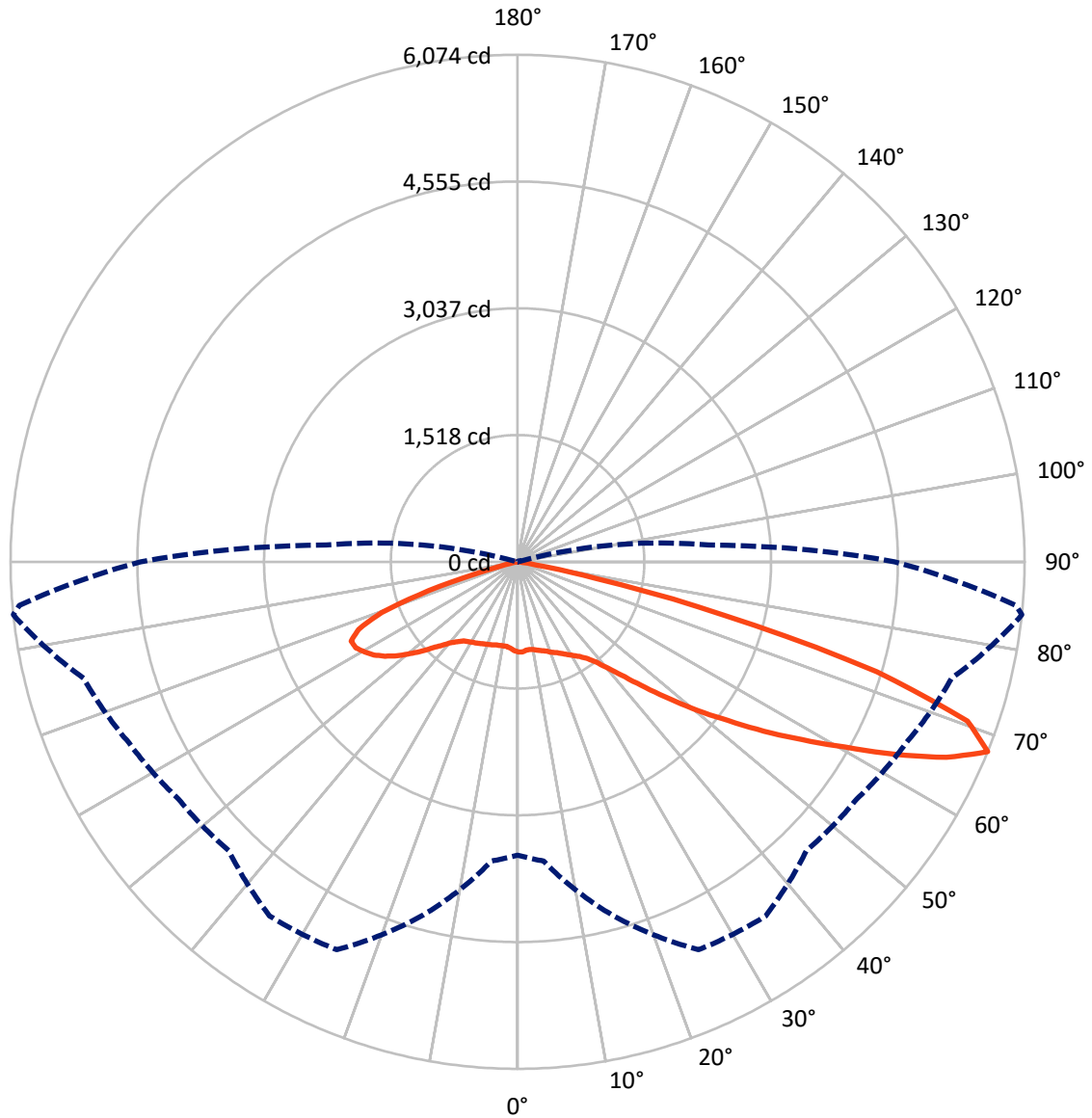
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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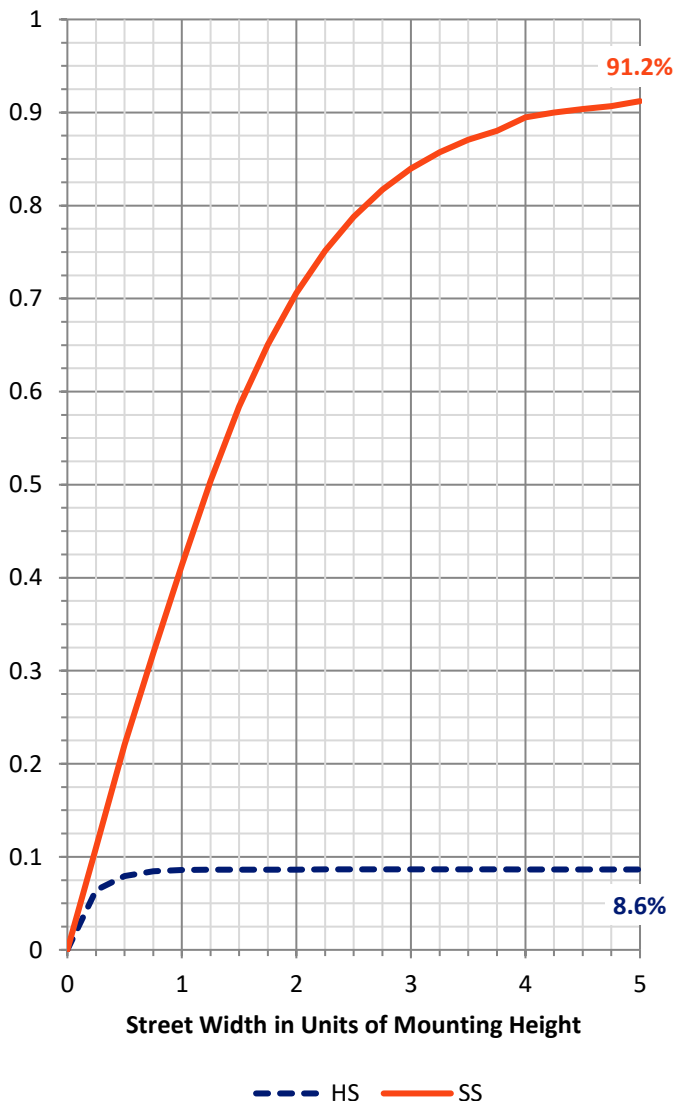
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	753.7	0.0	753.7
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	7903.3	0.0	7903.3
	% Fixture	91.3	0.0	91.3
Total	Lumens	8657.0	0.0	8657.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	1.1
10°-20°	253.0	2.9
20°-30°	405.1	4.7
30°-40°	583.0	6.7
40°-50°	1000.7	11.6
50°-60°	1748.3	20.2
60°-70°	2503.7	28.9
70°-80°	1881.8	21.7
80°-90°	184.7	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°	8657.0	100.0
0°-180°	8657.0	100.0

Coefficient of Utilization

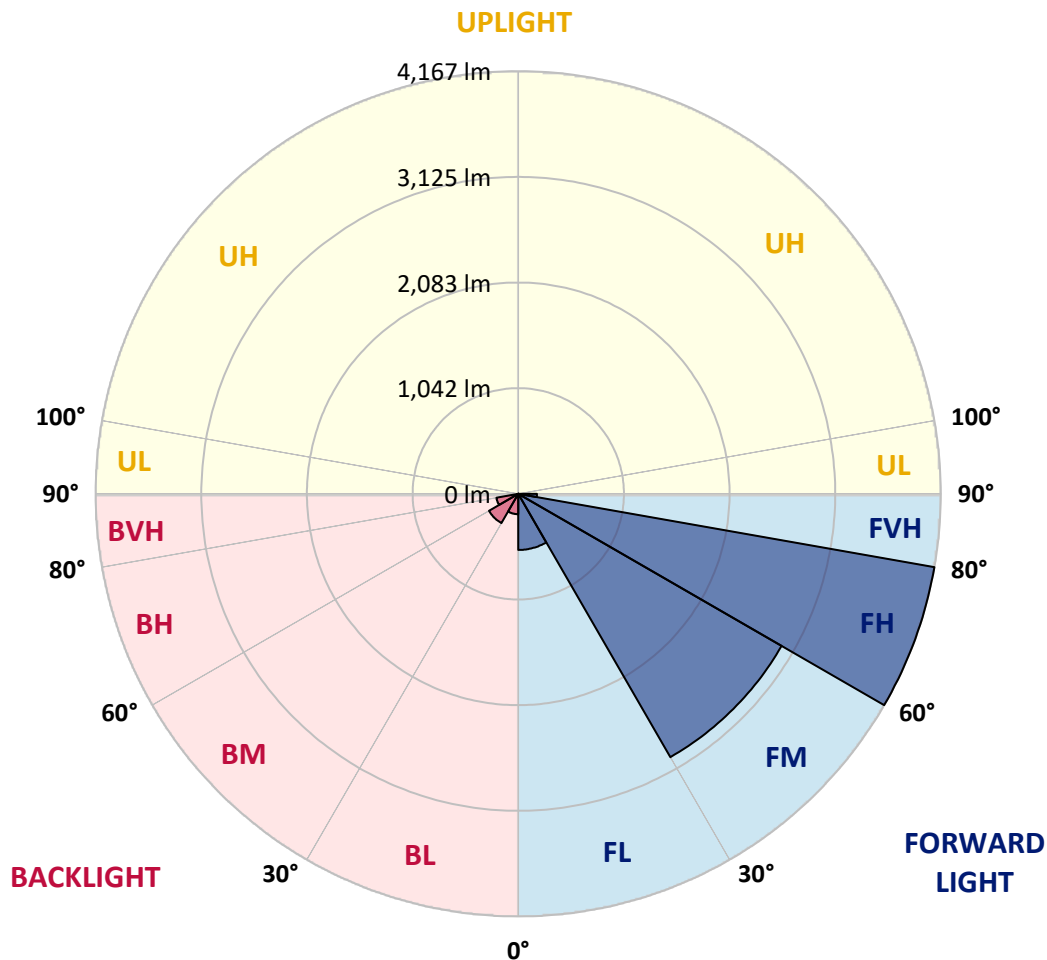


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	553.5	6.4			
FM (30°-60°)	2998.7	34.6			
FH (60°-80°)	4167.0	48.1			G2/5000
FVH (80°-90°)	184.1	2.1			G2/225
BL (0°-30°)	201.3	2.3	B1/500		
BM (30°-60°)	333.3	3.9	B1/1000		
BH (60°-80°)	218.5	2.5	B1/500		G1/500
BVH (80°-90°)	0.6	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	1078.6	1078.6	1078.6	1078.6	1078.6	1078.6	1078.6	1078.6	1078.6	1078.6	1078.6
2.5°	1139.9	1145.8	1148.7	1134.1	1134.1	1122.4	1104.9	1099.0	1090.2	1081.5	1078.6
5°	1198.4	1207.2	1204.2	1186.7	1177.9	1154.6	1131.2	1107.8	1084.4	1063.9	1063.9
7.5°	1265.6	1268.5	1259.8	1230.5	1213.0	1180.9	1145.8	1119.5	1090.2	1061.0	1055.2
10°	1324.1	1321.2	1309.5	1280.2	1248.1	1207.2	1169.2	1139.9	1104.9	1069.8	1066.9
12.5°	1365.0	1367.9	1353.3	1312.4	1280.2	1233.5	1195.5	1166.2	1125.3	1087.3	1078.6
15°	1400.1	1408.8	1391.3	1350.4	1303.6	1262.7	1233.5	1195.5	1148.7	1104.9	1099.0
17.5°	1432.2	1435.2	1420.5	1373.8	1329.9	1294.9	1262.7	1227.6	1180.9	1125.3	1119.5
20°	1449.8	1458.5	1449.8	1391.3	1350.4	1324.1	1297.8	1262.7	1210.1	1157.5	1151.6
22.5°	1461.5	1470.2	1467.3	1403.0	1367.9	1347.5	1324.1	1291.9	1242.2	1180.9	1175.0
25°	1467.3	1473.2	1479.0	1414.7	1385.5	1376.7	1356.2	1327.0	1280.2	1215.9	1210.1
27.5°	1476.1	1481.9	1487.8	1429.3	1417.6	1408.8	1403.0	1379.6	1324.1	1256.9	1248.1
30°	1490.7	1499.5	1505.3	1455.6	1455.6	1464.4	1464.4	1432.2	1370.8	1300.7	1294.9
32.5°	1508.2	1511.2	1522.8	1481.9	1496.5	1517.0	1511.2	1479.0	1414.7	1350.4	1341.6
35°	1555.0	1555.0	1575.5	1522.8	1540.4	1557.9	1563.8	1540.4	1481.9	1417.6	1414.7
37.5°	1669.0	1669.0	1686.5	1601.8	1598.8	1616.4	1636.8	1636.8	1578.4	1519.9	1514.1
40°	1926.2	1926.2	1926.2	1730.4	1698.2	1718.7	1750.8	1768.4	1718.7	1677.8	1677.8
42.5°	2355.9	2358.8	2315.0	1967.1	1829.7	1864.8	1899.9	1937.9	1911.6	1882.4	1876.5
45°	2800.2	2785.5	2779.7	2315.0	2063.6	2046.0	2089.9	2154.2	2163.0	2145.4	2157.1
47.5°	3104.1	3118.8	3127.5	2747.5	2390.9	2271.1	2312.0	2402.6	2455.3	2452.3	2469.9
50°	3399.4	3408.1	3416.9	3224.0	2823.5	2554.6	2580.9	2703.7	2776.8	2800.2	2811.9
52.5°	3656.6	3633.2	3671.2	3644.9	3282.4	2879.1	2879.1	3019.4	3150.9	3159.7	3156.8
55°	3732.6	3747.2	3861.2	3940.1	3753.0	3276.6	3218.1	3367.2	3507.5	3580.6	3580.6
57.5°	3902.1	3916.7	4054.1	4232.4	4095.0	3668.3	3580.6	3726.7	3878.7	4019.0	4039.5
60°	4124.2	4127.2	4273.3	4545.1	4355.2	4021.9	3948.9	4115.5	4267.5	4507.1	4574.4
62.5°	4244.1	4255.8	4457.5	4814.1	4682.5	4331.8	4314.2	4466.2	4662.1	5083.0	5144.3
65°	4059.9	4135.9	4574.4	4974.8	4948.5	4621.1	4682.5	4805.3	5030.3	5647.1	5705.5
67.5°	3513.4	3598.1	4381.5	5126.8	5179.4	4893.0	4957.3	5135.6	5384.0	6073.8	5992.0
70°	3235.7	3305.8	3913.8	5211.6	5372.3	5197.0	5226.2	5392.8	5465.9	5717.2	5629.5
72.5°	2452.3	2525.4	3311.7	4922.2	5538.9	5515.6	5442.5	5305.1	4872.5	4498.4	4285.0
75°	1084.4	1169.2	2203.9	3846.6	5126.8	5696.8	5310.9	4542.2	3498.7	2554.6	2367.6
77.5°	479.4	529.0	853.5	2136.7	3852.4	4931.0	4200.2	3028.1	1756.7	949.9	882.7
80°	154.9	160.8	268.9	748.3	1970.0	3264.9	2572.2	1455.6	540.7	222.1	207.5
82.5°	61.4	67.2	128.6	315.7	815.5	1297.8	1262.7	526.1	157.8	58.5	58.5
85°	17.5	20.5	64.3	166.6	289.4	365.4	447.2	175.4	84.8	17.5	17.5
87.5°	5.8	5.8	23.4	52.6	55.5	38.0	84.8	67.2	52.6	5.8	5.8
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°	1078.6	1078.6	1078.6	1078.6	1078.6	1078.6	1078.6	1078.6	1078.6	1078.6	1078.6
2.5°	1072.7	1066.9	1052.3	1040.6	1034.7	1025.9	1014.3	1008.4	1008.4	1005.5	996.7
5°	1052.3	1043.5	1017.2	999.6	985.0	952.9	929.5	900.3	871.0	862.3	871.0
7.5°	1043.5	1025.9	990.9	955.8	894.4	809.6	754.1	692.7	672.3	646.0	648.9
10°	1046.4	1025.9	976.3	897.3	777.5	651.8	564.1	482.3	441.4	420.9	423.8
12.5°	1055.2	1031.8	961.6	818.4	646.0	494.0	359.5	295.2	283.5	283.5	283.5
15°	1072.7	1037.6	938.3	724.9	505.7	327.4	254.3	248.4	257.2	266.0	268.9
17.5°	1090.2	1055.2	903.2	628.4	368.3	245.5	236.8	236.8	245.5	254.3	257.2
20°	1110.7	1072.7	853.5	526.1	263.1	230.9	228.0	225.1	230.9	239.7	242.6
22.5°	1142.9	1090.2	795.0	406.3	228.0	222.1	216.3	213.4	216.3	225.1	228.0
25°	1172.1	1113.6	733.7	301.1	213.4	207.5	204.6	201.7	201.7	207.5	210.5
27.5°	1207.2	1139.9	666.4	225.1	195.8	192.9	190.0	187.1	184.1	190.0	192.9
30°	1251.0	1163.3	593.4	190.0	178.3	175.4	172.5	169.5	166.6	169.5	172.5
32.5°	1306.5	1195.5	508.6	172.5	163.7	154.9	152.0	152.0	149.1	149.1	152.0
35°	1379.6	1230.5	418.0	160.8	149.1	140.3	131.5	128.6	128.6	128.6	131.5
37.5°	1487.8	1294.9	330.3	149.1	137.4	122.8	114.0	105.2	105.2	105.2	105.2
40°	1636.8	1365.0	257.2	140.3	128.6	108.1	96.5	84.8	78.9	76.0	78.9
42.5°	1867.7	1470.2	198.8	128.6	122.8	96.5	78.9	64.3	52.6	49.7	52.6
45°	2122.0	1584.2	157.8	119.8	111.1	81.8	61.4	43.8	32.2	29.2	32.2
47.5°	2443.6	1727.4	134.5	108.1	96.5	67.2	43.8	23.4	14.6	17.5	17.5
50°	2753.4	1867.7	122.8	99.4	84.8	55.5	26.3	11.7	5.8	8.8	8.8
52.5°	3095.4	2016.8	114.0	87.7	73.1	40.9	14.6	2.9	0.0	2.9	2.9
55°	3440.3	2151.3	105.2	78.9	58.5	29.2	5.8	0.0	0.0	0.0	2.9
57.5°	3814.4	2265.3	96.5	67.2	43.8	17.5	2.9	0.0	0.0	0.0	0.0
60°	4127.2	2353.0	87.7	58.5	29.2	8.8	0.0	0.0	0.0	0.0	0.0
62.5°	4413.6	2431.9	67.2	43.8	17.5	5.8	0.0	0.0	0.0	0.0	0.0
65°	4603.6	2449.4	46.8	29.2	11.7	2.9	0.0	0.0	0.0	0.0	0.0
67.5°	4518.8	2297.4	29.2	20.5	5.8	2.9	0.0	0.0	0.0	0.0	0.0
70°	3972.2	1929.1	20.5	11.7	2.9	2.9	0.0	0.0	0.0	0.0	0.0
72.5°	2779.7	1245.2	17.5	8.8	2.9	2.9	0.0	0.0	0.0	0.0	0.0
75°	1467.3	450.1	11.7	5.8	2.9	2.9	0.0	0.0	0.0	0.0	0.0
77.5°	520.3	99.4	5.8	2.9	0.0	2.9	0.0	0.0	0.0	0.0	0.0
80°	114.0	20.5	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	32.2	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	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)