

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: P594878

Luminaire Tested: **ISS-PA1F-735-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-8)
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-T2U
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10806 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

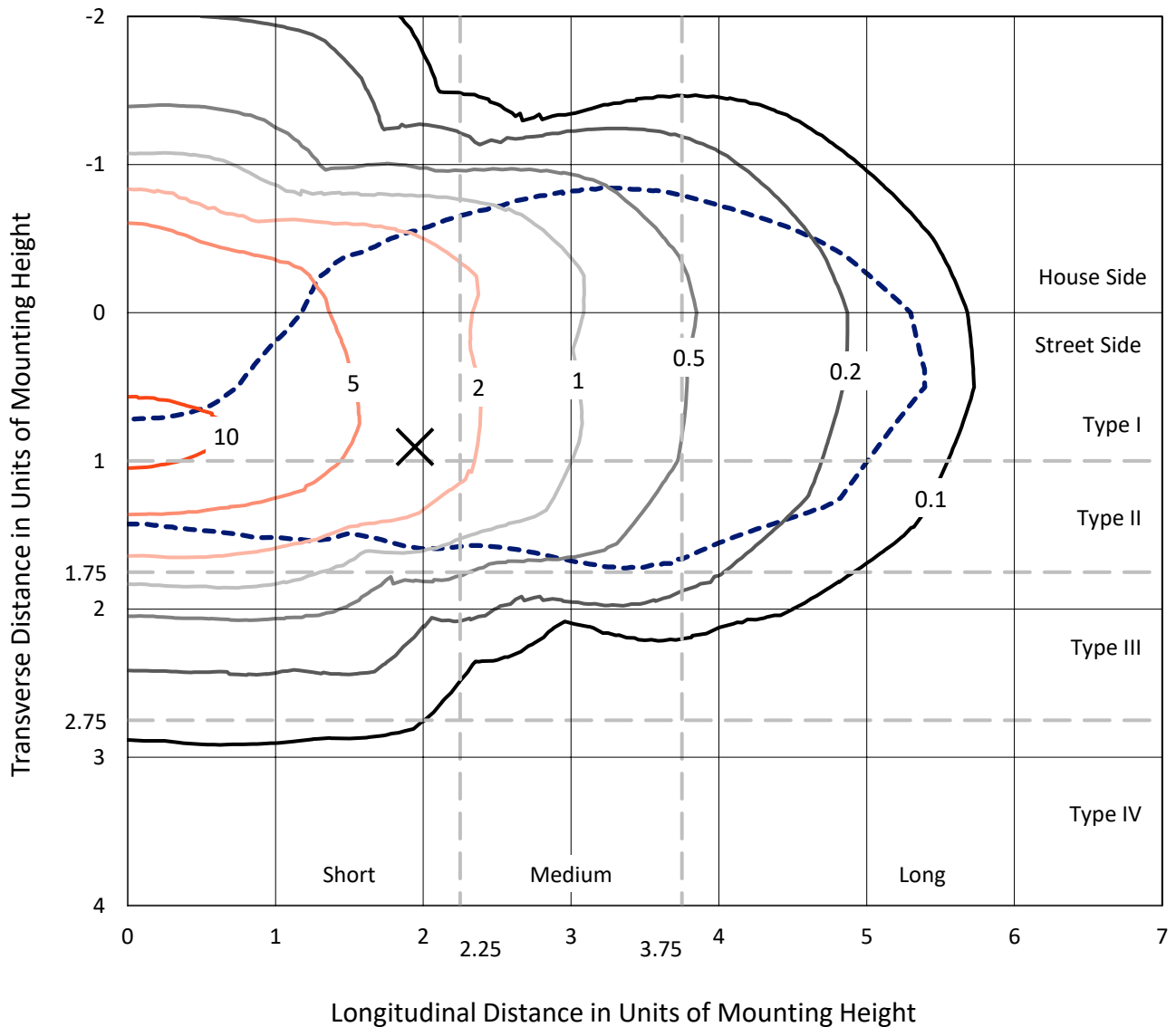
Input Watts (W): 94.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

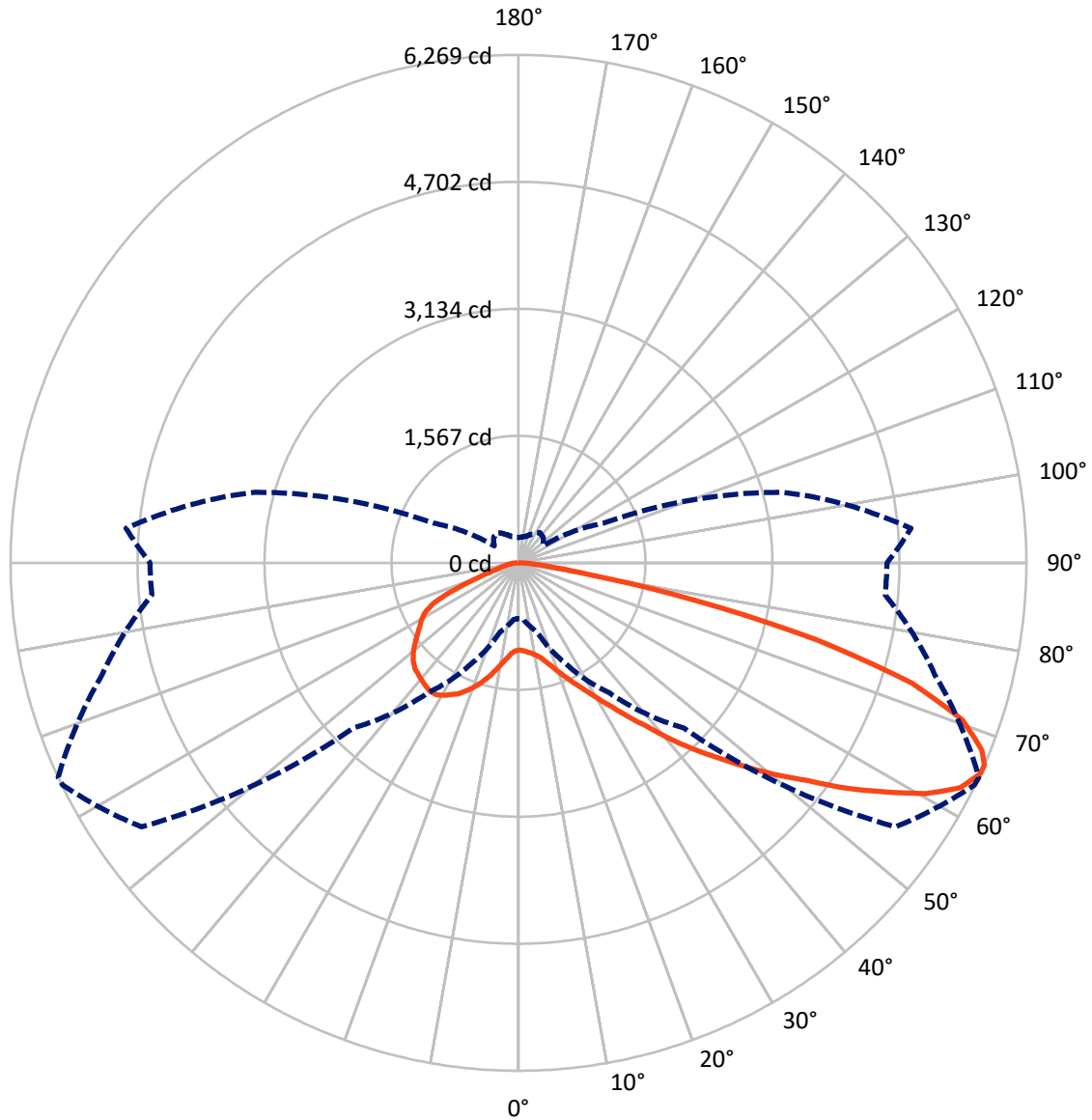
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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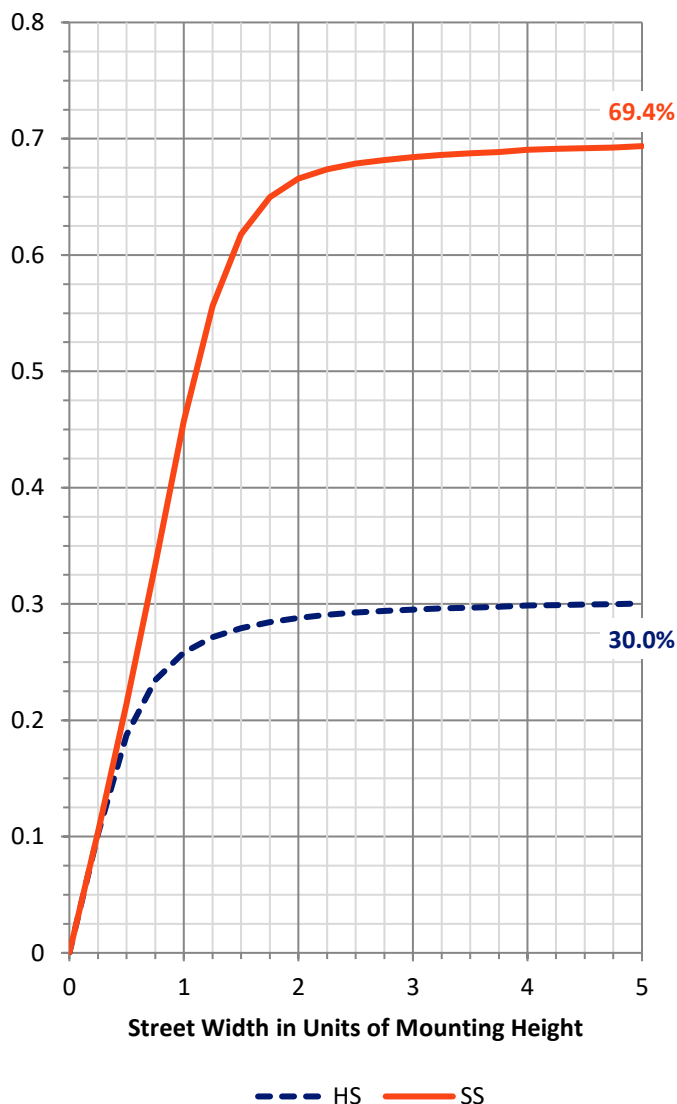
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3281.1	0.0	3281.1
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	7524.9	0.0	7524.9
	% Fixture	69.6	0.0	69.6
Total	Lumens	10806.0	0.0	10806.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.9	1.0
10°-20°	383.0	3.5
20°-30°	750.0	6.9
30°-40°	1225.6	11.3
40°-50°	1945.3	18.0
50°-60°	2502.0	23.2
60°-70°	2256.3	20.9
70°-80°	1399.4	13.0
80°-90°	234.5	2.2
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°	10806.0	100.0
0°-180°	10806.0	100.0

Coefficient of Utilization

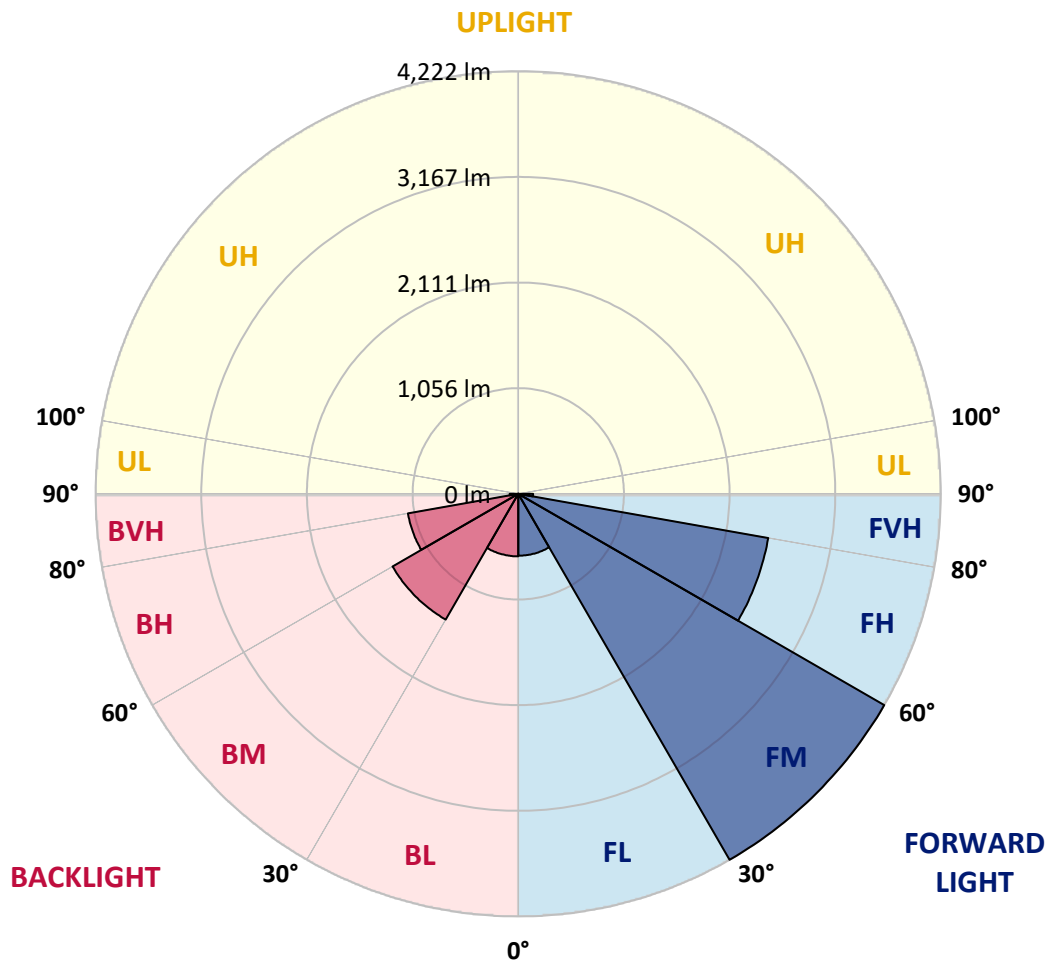


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	618.0	5.7			
FM (30°-60°)	4222.4	39.1			
FH (60°-80°)	2536.2	23.5			G2/5000
FVH (80°-90°)	148.3	1.4			G2/225
BL (0°-30°)	624.9	5.8	B2/1000		
BM (30°-60°)	1450.5	13.4	B2/2500		
BH (60°-80°)	1119.5	10.4	B3/2500		G3/2500
BVH (80°-90°)	86.2	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1
2.5°	1079.7	1082.3	1085.0	1079.7	1085.0	1087.6	1082.3	1082.3	1085.0	1079.7	1079.7
5°	1071.9	1074.5	1079.7	1082.3	1092.8	1098.1	1100.7	1100.7	1103.3	1100.7	1103.3
7.5°	1050.9	1050.9	1061.4	1066.6	1082.3	1100.7	1111.2	1126.9	1126.9	1129.5	1137.4
10°	1071.9	1071.9	1079.7	1087.6	1100.7	1116.4	1132.1	1150.5	1155.7	1174.1	1184.5
12.5°	1103.3	1108.5	1119.0	1129.5	1145.2	1163.6	1176.7	1195.0	1197.7	1216.0	1237.0
15°	1155.7	1161.0	1166.2	1179.3	1200.3	1223.9	1247.4	1260.5	1265.8	1276.3	1292.0
17.5°	1234.3	1239.6	1242.2	1250.1	1265.8	1297.2	1331.3	1341.8	1347.0	1347.0	1360.1
20°	1368.0	1365.4	1360.1	1344.4	1344.4	1373.2	1420.4	1438.8	1444.0	1433.5	1425.7
22.5°	1522.6	1520.0	1499.0	1480.7	1467.6	1472.8	1520.0	1551.4	1548.8	1527.9	1496.4
25°	1724.4	1729.7	1695.6	1648.4	1609.1	1598.6	1627.4	1658.9	1664.1	1624.8	1572.4
27.5°	1965.5	1957.7	1939.3	1863.3	1787.3	1740.1	1755.9	1789.9	1792.5	1750.6	1666.8
30°	2248.5	2235.4	2188.3	2109.7	1991.7	1926.2	1913.1	1941.9	1949.8	1879.0	1758.5
32.5°	2563.0	2549.9	2489.6	2369.1	2240.7	2130.6	2088.7	2128.0	2122.8	2041.5	1873.8
35°	2943.0	2940.4	2830.3	2681.0	2518.5	2371.7	2314.1	2314.1	2329.8	2209.2	2020.5
37.5°	3451.4	3472.4	3309.9	3076.7	2848.7	2652.1	2555.2	2549.9	2552.5	2421.5	2185.7
40°	3910.1	3902.2	3807.9	3590.3	3257.5	3005.9	2861.8	2830.3	2838.2	2670.5	2400.5
42.5°	4174.7	4182.6	4159.0	4064.7	3773.8	3456.7	3210.3	3126.5	3129.1	2919.4	2605.0
45°	4339.9	4347.7	4345.1	4392.3	4277.0	3978.2	3627.0	3433.1	3422.6	3202.5	2846.1
47.5°	4434.2	4439.4	4473.5	4570.5	4664.8	4596.7	4088.3	3773.8	3752.8	3467.2	3087.2
50°	4329.4	4332.0	4468.3	4698.9	4929.5	5136.5	4560.0	4111.9	4106.6	3760.7	3323.0
52.5°	3779.0	3826.2	4127.6	4609.8	5126.1	5519.2	5105.1	4510.2	4465.6	4038.5	3558.9
55°	3084.5	3105.5	3451.4	4064.7	5089.4	5755.0	5516.5	4940.0	4908.5	4347.7	3789.5
57.5°	2408.4	2429.4	2840.8	3351.9	4528.5	5741.9	5807.4	5403.8	5333.1	4617.6	4020.1
60°	1554.1	1619.6	2096.5	2725.5	3666.3	5343.6	5954.2	5849.4	5783.8	4885.0	4216.7
62.5°	1056.1	1066.6	1365.4	2020.5	2743.9	4342.5	5943.7	6124.5	6114.1	5152.3	4413.2
65°	686.6	702.3	883.2	1368.0	1962.9	2882.8	5681.6	6258.2	6268.7	5317.4	4541.6
66°	581.8	592.3	731.2	1150.5	1719.2	2285.2	5451.0	6247.7	6268.7	5393.4	4581.0
67.5°	505.8	513.7	584.4	849.1	1404.7	1643.2	4850.9	6108.8	6169.1	5464.1	4630.7
70°	435.0	445.5	511.0	579.2	1003.7	959.2	3071.4	5752.4	5812.7	5498.2	4662.2
72.5°	359.0	366.9	432.4	524.1	728.6	644.7	1354.9	4924.3	5076.3	5372.4	4612.4
75°	283.0	288.3	348.6	437.7	558.2	503.2	589.7	3611.3	3802.6	4735.6	4418.5
77.5°	220.1	222.8	269.9	340.7	511.0	390.5	364.3	1758.5	2225.0	3658.5	3891.7
80°	152.0	157.2	199.2	256.8	374.8	309.2	243.7	686.6	872.7	2429.4	2950.9
82.5°	99.6	102.2	136.3	193.9	249.0	296.1	159.9	332.8	366.9	1119.0	1278.9
85°	68.1	68.1	97.0	120.6	170.3	196.6	104.8	175.6	191.3	424.6	154.6
87.5°	34.1	34.1	47.2	62.9	81.2	76.0	62.9	62.9	62.9	138.9	44.6
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°	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1
2.5°	1082.3	1082.3	1085.0	1087.6	1090.2	1090.2	1092.8	1092.8	1090.2	1092.8	1095.4
5°	1105.9	1108.5	1113.8	1121.7	1134.8	1147.9	1161.0	1168.8	1176.7	1179.3	1174.1
7.5°	1142.6	1147.9	1166.2	1187.2	1208.1	1239.6	1257.9	1268.4	1273.7	1278.9	1273.7
10°	1189.8	1200.3	1226.5	1263.2	1299.9	1339.2	1360.1	1375.9	1378.5	1383.7	1378.5
12.5°	1244.8	1263.2	1302.5	1354.9	1399.4	1438.8	1454.5	1444.0	1420.4	1409.9	1407.3
15°	1310.3	1328.7	1383.7	1449.2	1501.7	1520.0	1496.4	1462.3	1436.1	1433.5	1430.9
17.5°	1368.0	1394.2	1470.2	1538.3	1588.1	1569.8	1506.9	1485.9	1478.1	1488.5	1485.9
20°	1441.4	1462.3	1538.3	1622.2	1648.4	1577.7	1533.1	1520.0	1512.1	1512.1	1506.9
22.5°	1501.7	1517.4	1609.1	1700.8	1685.1	1582.9	1551.4	1525.2	1499.0	1496.4	1488.5
25°	1572.4	1577.7	1674.6	1774.2	1690.3	1588.1	1533.1	1488.5	1462.3	1454.5	1457.1
27.5°	1637.9	1651.0	1734.9	1824.0	1677.2	1559.3	1470.2	1412.5	1373.2	1370.6	1370.6
30°	1721.8	1721.8	1797.8	1879.0	1648.4	1485.9	1368.0	1284.1	1252.7	1250.1	1244.8
32.5°	1816.1	1800.4	1873.8	1918.3	1585.5	1386.3	1229.1	1134.8	1085.0	1074.5	1066.6
35°	1947.2	1913.1	1965.5	1926.2	1522.6	1244.8	1053.5	946.1	909.4	893.7	893.7
37.5°	2099.2	2049.4	2104.4	1902.6	1425.7	1079.7	870.1	788.8	749.5	725.9	733.8
40°	2277.4	2214.5	2245.9	1876.4	1320.8	896.3	718.1	668.3	621.1	589.7	589.7
42.5°	2487.0	2382.2	2405.8	1850.2	1171.4	736.4	621.1	587.0	550.3	518.9	526.8
45°	2688.8	2586.6	2563.0	1824.0	1014.2	629.0	581.8	558.2	524.1	487.4	487.4
47.5°	2922.1	2791.0	2701.9	1776.8	859.6	594.9	592.3	558.2	492.7	440.3	435.0
50°	3142.2	3021.6	2827.7	1706.1	773.1	623.7	589.7	508.4	445.5	411.4	408.8
52.5°	3375.4	3249.6	2929.9	1619.6	728.6	610.6	542.5	466.5	419.3	385.2	377.4
55°	3606.1	3540.5	3021.6	1535.7	657.8	568.7	503.2	440.3	390.5	359.0	353.8
57.5°	3868.1	3841.9	3100.3	1451.9	547.7	516.3	474.3	421.9	374.8	351.2	348.6
60°	4096.1	4187.9	3194.6	1389.0	466.5	477.0	461.2	419.3	385.2	359.0	359.0
62.5°	4337.2	4520.7	3278.5	1307.7	406.2	453.4	463.9	416.7	372.1	348.6	348.6
65°	4546.9	4861.4	3365.0	1158.3	364.3	435.0	456.0	387.9	335.4	317.1	311.9
66°	4636.0	4958.3	3391.2	1066.6	348.6	421.9	442.9	372.1	319.7	304.0	301.4
67.5°	4740.8	5110.3	3422.6	870.1	325.0	393.1	414.1	348.6	293.5	283.0	277.8
70°	4887.6	5141.8	3404.3	568.7	283.0	338.1	369.5	311.9	262.1	254.2	246.3
72.5°	4903.3	4926.9	3220.8	359.0	246.3	290.9	325.0	280.4	230.6	222.8	217.5
75°	4643.9	4366.1	2725.5	256.8	217.5	256.8	285.7	243.7	191.3	180.8	175.6
77.5°	3965.1	3464.5	1960.3	191.3	188.7	220.1	238.5	212.3	159.9	152.0	149.4
80°	2783.2	2350.8	982.8	144.1	149.4	183.4	199.2	178.2	133.7	123.2	117.9
82.5°	1126.9	998.5	338.1	107.4	112.7	138.9	170.3	146.8	102.2	89.1	78.6
85°	128.4	217.5	146.8	73.4	76.0	94.3	115.3	89.1	60.3	49.8	41.9
87.5°	26.2	47.2	52.4	28.8	26.2	36.7	52.4	31.4	21.0	7.9	10.5
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)