

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: P647909

Luminaire Tested: **GALN-SA4A-835-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647909
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-835-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10200.2 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

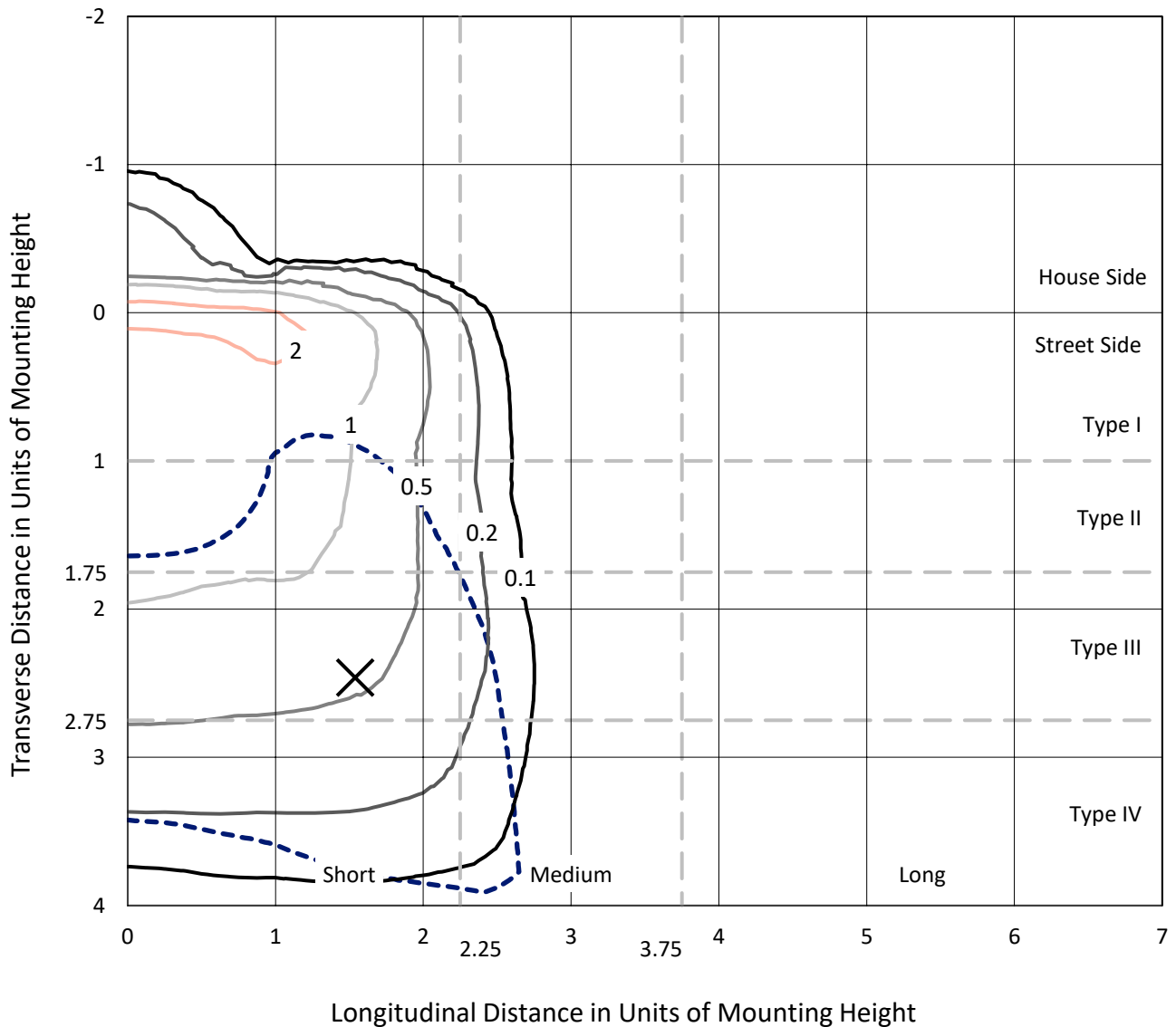
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

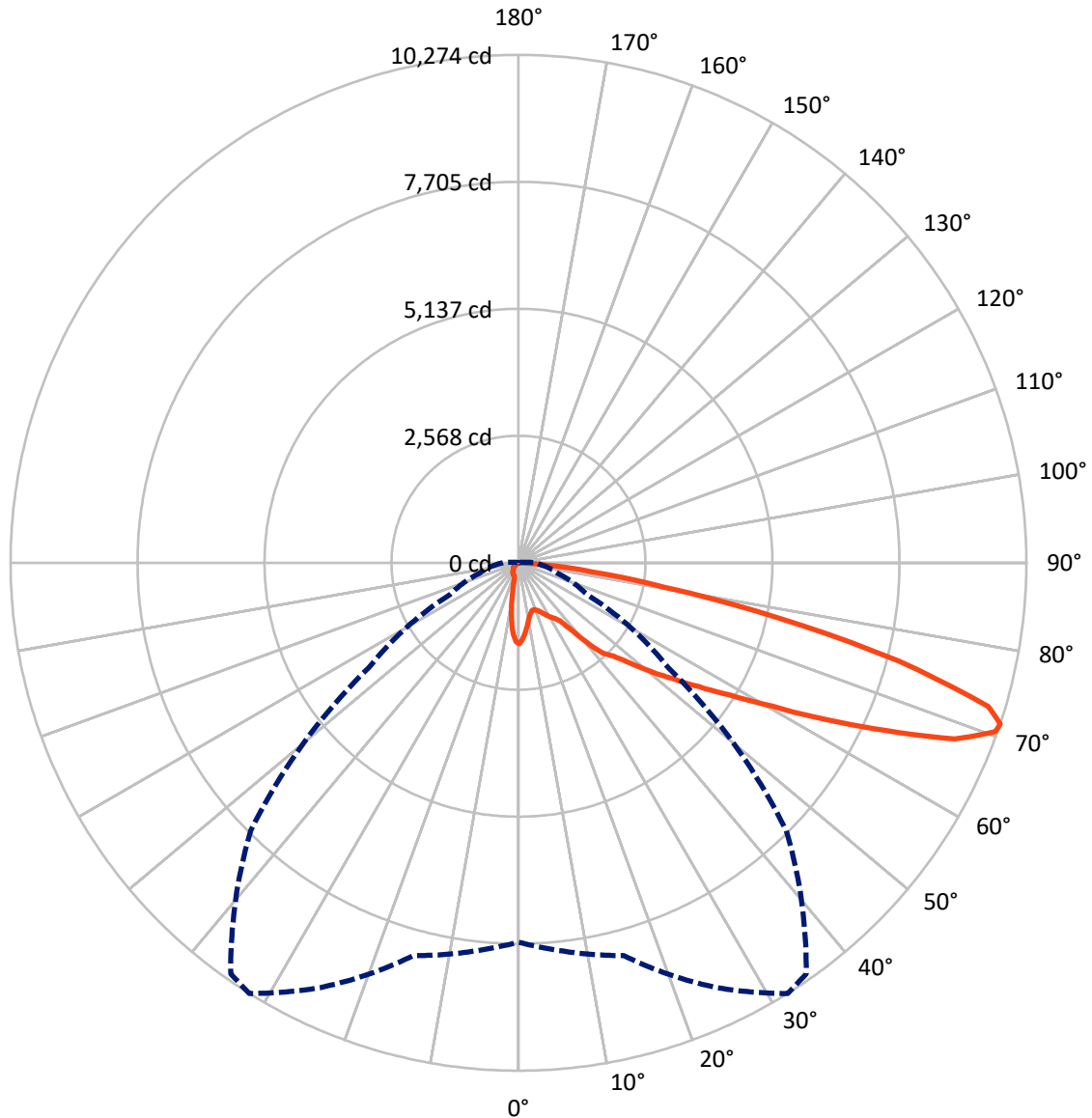
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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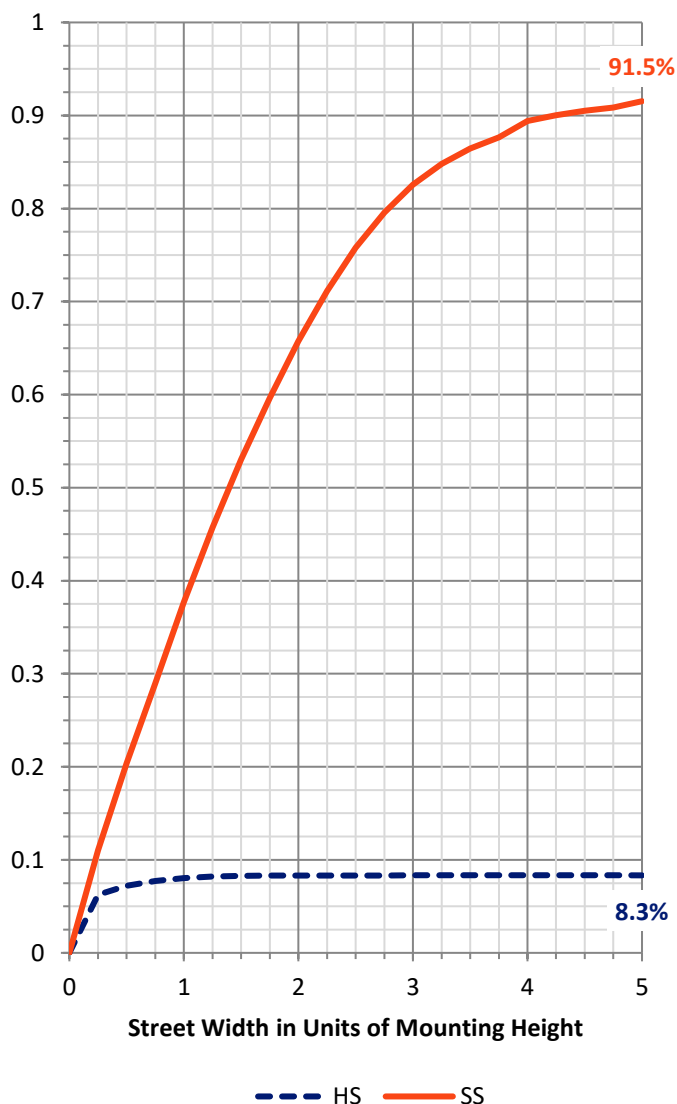
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	854.4	0.0	854.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	9345.8	0.0	9345.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	10200.2	0.0	10200.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.4	1.3
10°-20°	289.5	2.8
20°-30°	450.3	4.4
30°-40°	750.3	7.4
40°-50°	1395.6	13.7
50°-60°	2240.7	22.0
60°-70°	3013.9	29.5
70°-80°	1788.2	17.5
80°-90°	138.2	1.4
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°	10200.2	100.0
0°-180°	10200.2	100.0

Coefficient of Utilization



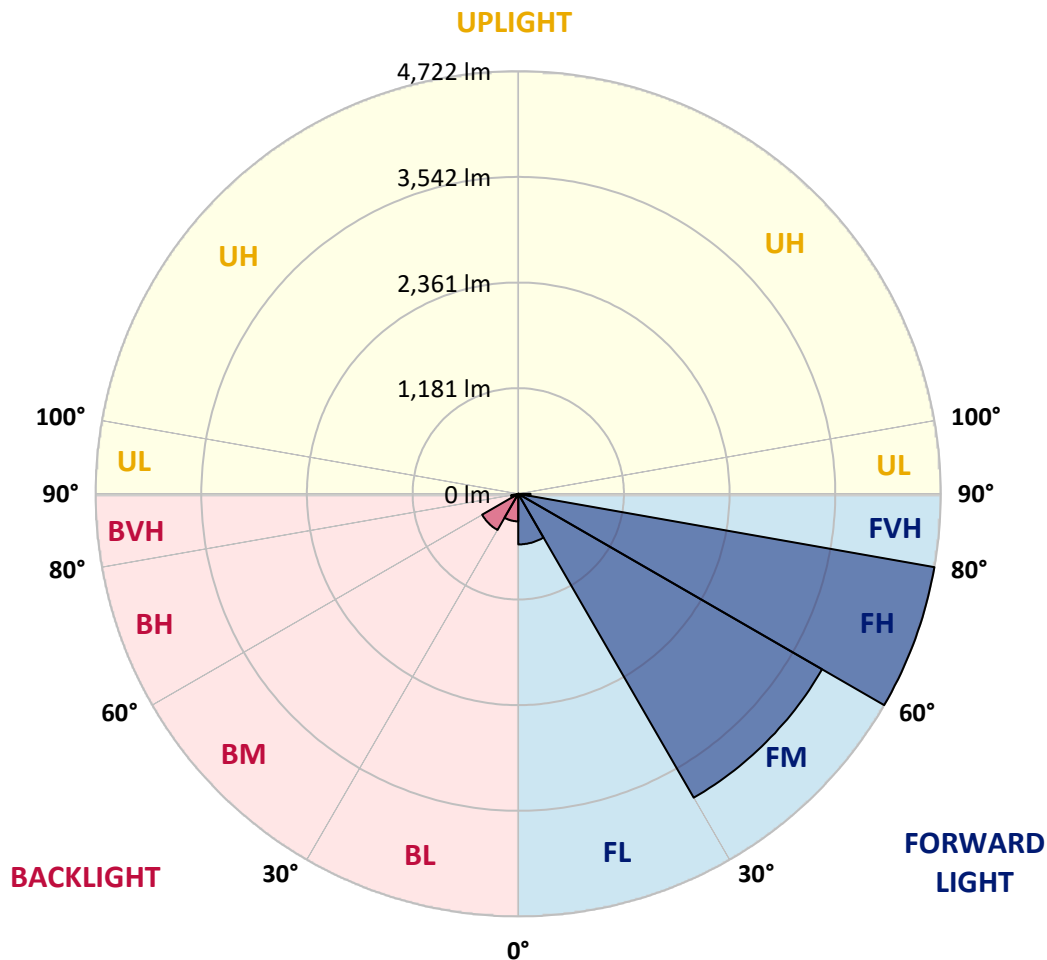
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	565.4	5.5			
FM (30°-60°)	3920.6	38.4			
FH (60°-80°)	4722.2	46.3			G2/5000
FVH (80°-90°)	137.7	1.3			G2/225
BL (0°-30°)	307.8	3.0	B1/500		
BM (30°-60°)	466.1	4.6	B1/1000		
BH (60°-80°)	79.9	0.8	B0/110		G0/110
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3
2.5°	1521.3	1537.0	1534.6	1540.1	1553.4	1558.9	1573.8	1590.2	1612.9	1628.6	1638.7
5°	1362.4	1374.2	1375.7	1403.1	1416.4	1431.3	1475.2	1522.9	1576.1	1618.4	1646.6
7.5°	1192.5	1198.8	1211.3	1247.3	1281.0	1295.9	1362.4	1445.4	1529.1	1608.2	1659.1
10°	1052.4	1059.4	1082.1	1120.5	1151.8	1171.4	1263.8	1367.9	1485.4	1602.7	1677.1
12.5°	972.5	976.4	985.0	1019.5	1059.4	1080.5	1180.0	1299.0	1450.1	1605.1	1707.6
15°	967.0	965.4	955.3	969.4	1005.4	1027.3	1124.4	1252.0	1418.8	1612.9	1743.7
17.5°	996.0	992.1	967.8	967.8	997.5	1015.6	1100.9	1227.0	1403.1	1630.9	1794.6
20°	1040.6	1034.3	994.4	991.3	1020.2	1039.0	1115.0	1228.5	1406.3	1664.6	1862.7
22.5°	1097.0	1089.9	1029.6	1031.2	1062.5	1081.3	1155.7	1256.7	1425.8	1706.1	1935.5
25°	1170.6	1162.8	1091.5	1088.4	1121.3	1137.7	1216.0	1306.8	1453.2	1757.8	2031.0
27.5°	1268.5	1252.0	1166.7	1162.0	1197.2	1218.3	1288.8	1374.2	1501.7	1829.0	2159.4
30°	1349.1	1331.1	1249.7	1237.1	1274.7	1291.2	1364.0	1465.0	1597.2	1953.5	2337.2
32.5°	1454.8	1428.2	1332.7	1299.8	1339.7	1360.9	1472.8	1634.0	1739.0	2085.1	2548.6
35°	1692.8	1676.3	1559.7	1444.6	1442.3	1468.9	1633.3	1804.7	1884.6	2290.2	2836.7
37.5°	2033.4	2021.6	1897.9	1743.7	1699.0	1686.5	1828.2	1992.7	2117.2	2572.1	3171.9
40°	2428.8	2401.4	2287.8	2157.1	2099.1	2062.3	2058.4	2272.2	2421.0	2955.0	3521.1
42.5°	2712.2	2662.1	2524.3	2514.9	2502.4	2464.0	2352.8	2680.9	2813.2	3366.8	3894.6
45°	3009.8	2933.8	2728.7	2693.4	2688.7	2686.4	2797.6	3164.8	3240.8	3813.1	4278.2
47.5°	3240.8	3180.5	3012.1	2996.5	3016.0	3069.3	3385.6	3678.5	3662.8	4210.9	4600.0
50°	3548.5	3503.1	3315.9	3345.7	3446.7	3533.6	4048.8	4238.3	4009.7	4524.0	4834.1
52.5°	3911.8	3828.0	3654.2	3734.8	3889.9	4034.7	4752.7	4728.4	4253.2	4759.7	5008.7
55°	4226.6	4167.0	4107.5	4191.3	4423.1	4603.9	5388.4	5095.6	4430.1	4949.2	5085.4
57.5°	4758.9	4744.8	4683.7	4769.1	5050.2	5238.1	5957.7	5380.6	4543.6	5047.8	4995.4
60°	5546.6	5523.9	5410.4	5519.2	5885.7	6180.8	6482.3	5636.7	4569.4	5009.5	4736.2
62.5°	6494.0	6416.5	6319.4	6480.0	6982.6	7112.6	6976.4	5788.6	4473.2	4704.1	4111.5
65°	7378.8	7299.0	7301.3	7639.5	8186.8	8275.3	7552.6	5765.9	4191.3	3939.2	3032.5
67.5°	8056.1	8042.7	8138.3	8798.3	9514.0	9452.9	8067.8	5426.0	3355.9	2553.3	1611.3
70°	8090.5	8116.3	8390.4	9504.6	10231.2	10134.1	8023.9	4410.6	2092.1	1174.5	635.0
71°	7673.9	7847.8	8226.7	9482.7	10273.5	10147.4	7654.4	3694.1	1534.6	819.0	458.1
72.5°	6539.5	6631.1	7450.1	8924.4	9939.2	9669.8	6717.2	2589.3	982.7	501.1	263.1
75°	3601.7	3827.2	4989.1	7001.4	7949.6	7713.1	4377.7	1230.1	490.2	274.0	108.8
77.5°	1714.7	1670.8	2434.3	4163.9	5390.0	5377.5	2205.6	546.5	285.8	185.6	54.8
80°	490.2	551.2	931.8	1979.3	2992.5	3025.4	847.2	263.9	198.1	144.9	28.2
82.5°	148.0	151.1	342.2	875.4	1488.5	1403.1	317.9	134.7	142.5	115.1	16.4
85°	25.8	32.1	101.0	308.5	567.7	430.6	79.9	64.2	94.0	76.0	9.4
87.5°	1.6	2.3	33.7	35.2	50.1	29.0	14.1	9.4	20.4	20.4	5.5
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°	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3
2.5°	1645.8	1650.5	1647.4	1640.3	1628.6	1614.5	1595.7	1580.0	1566.7	1559.7	1568.3
5°	1656.0	1662.2	1646.6	1611.3	1558.1	1500.1	1434.5	1383.6	1343.6	1331.1	1326.4
7.5°	1671.6	1675.5	1633.3	1555.0	1442.3	1305.3	1185.5	1084.5	1006.2	982.7	948.2
10°	1692.0	1689.6	1609.8	1464.2	1266.1	1060.2	874.6	736.8	632.7	595.1	591.9
12.5°	1723.3	1710.8	1580.0	1340.5	1056.3	786.9	557.5	436.1	370.4	348.4	343.7
15°	1762.5	1732.7	1533.0	1195.6	808.8	508.2	343.7	306.9	298.3	296.8	295.2
17.5°	1808.7	1761.7	1471.3	1017.9	568.5	329.6	287.4	286.6	287.4	285.8	285.0
20°	1871.3	1792.2	1397.7	807.3	375.8	278.0	274.0	274.0	274.8	274.0	274.0
22.5°	1937.8	1828.2	1306.8	616.2	283.4	263.9	263.1	264.7	266.2	265.4	265.4
25°	2020.1	1875.2	1187.0	422.0	253.7	252.1	252.9	256.0	259.2	260.0	259.2
27.5°	2139.1	1933.1	1058.6	290.5	232.6	234.1	241.9	249.8	254.5	255.3	255.3
30°	2273.0	1997.4	891.1	235.7	215.3	215.3	224.7	239.6	249.8	251.3	252.1
32.5°	2445.2	2071.7	705.5	212.2	198.9	197.3	205.9	223.9	242.7	248.2	248.2
35°	2658.2	2159.4	524.6	197.3	187.1	183.2	187.9	202.8	227.1	242.7	244.3
37.5°	2908.0	2242.4	383.7	184.0	176.2	170.7	173.8	185.6	205.1	228.6	234.9
40°	3139.0	2316.0	286.6	173.0	165.2	161.3	163.6	169.1	185.6	207.5	211.4
42.5°	3391.1	2373.2	227.9	161.3	154.3	152.7	152.7	155.0	166.0	178.5	179.3
45°	3642.4	2393.6	191.1	147.2	142.5	144.1	143.3	141.7	146.4	144.9	144.9
47.5°	3821.7	2369.3	158.2	133.9	133.9	136.2	132.3	126.8	124.5	115.1	115.9
50°	3944.7	2280.8	130.0	118.2	124.5	127.6	119.8	111.2	102.6	92.4	90.0
52.5°	3995.6	2123.4	106.5	97.9	110.4	114.3	104.9	94.7	81.4	72.8	70.5
55°	3962.7	1929.2	88.5	79.9	93.2	97.9	88.5	76.7	61.9	52.5	50.9
57.5°	3817.8	1697.5	75.2	63.4	74.4	77.5	71.3	58.7	43.8	34.5	34.5
60°	3567.3	1457.9	61.1	50.1	55.6	60.3	54.0	42.3	29.8	21.1	19.6
62.5°	3059.1	1183.9	49.3	39.2	39.2	43.1	37.6	30.5	18.8	11.0	10.2
65°	2208.8	812.0	39.2	29.0	28.2	28.2	23.5	20.4	11.0	4.7	3.1
67.5°	1200.3	458.1	31.3	21.9	19.6	18.8	14.9	11.7	4.7	0.8	0.0
70°	472.1	176.2	24.3	14.9	12.5	11.7	7.8	5.5	3.1	0.0	0.0
71°	320.2	121.4	21.1	12.5	10.2	8.6	6.3	4.7	2.3	0.0	0.0
72.5°	183.2	75.2	16.4	9.4	7.8	6.3	4.7	3.1	2.3	0.0	0.0
75°	79.9	38.4	10.2	7.0	5.5	3.9	3.1	2.3	0.8	0.0	0.0
77.5°	40.7	21.1	7.0	5.5	3.1	2.3	1.6	0.8	0.0	0.0	0.0
80°	22.7	11.0	4.7	3.1	2.3	1.6	0.8	0.8	0.0	0.0	0.0
82.5°	12.5	6.3	2.3	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.8	3.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	1.6	0.0	0.0	0.0	0.0	0.8	0.8	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)