

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: P652309

Luminaire Tested: **GALN-SA3B-840-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652309
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-SA3B-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 800mA 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: 10287.1 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

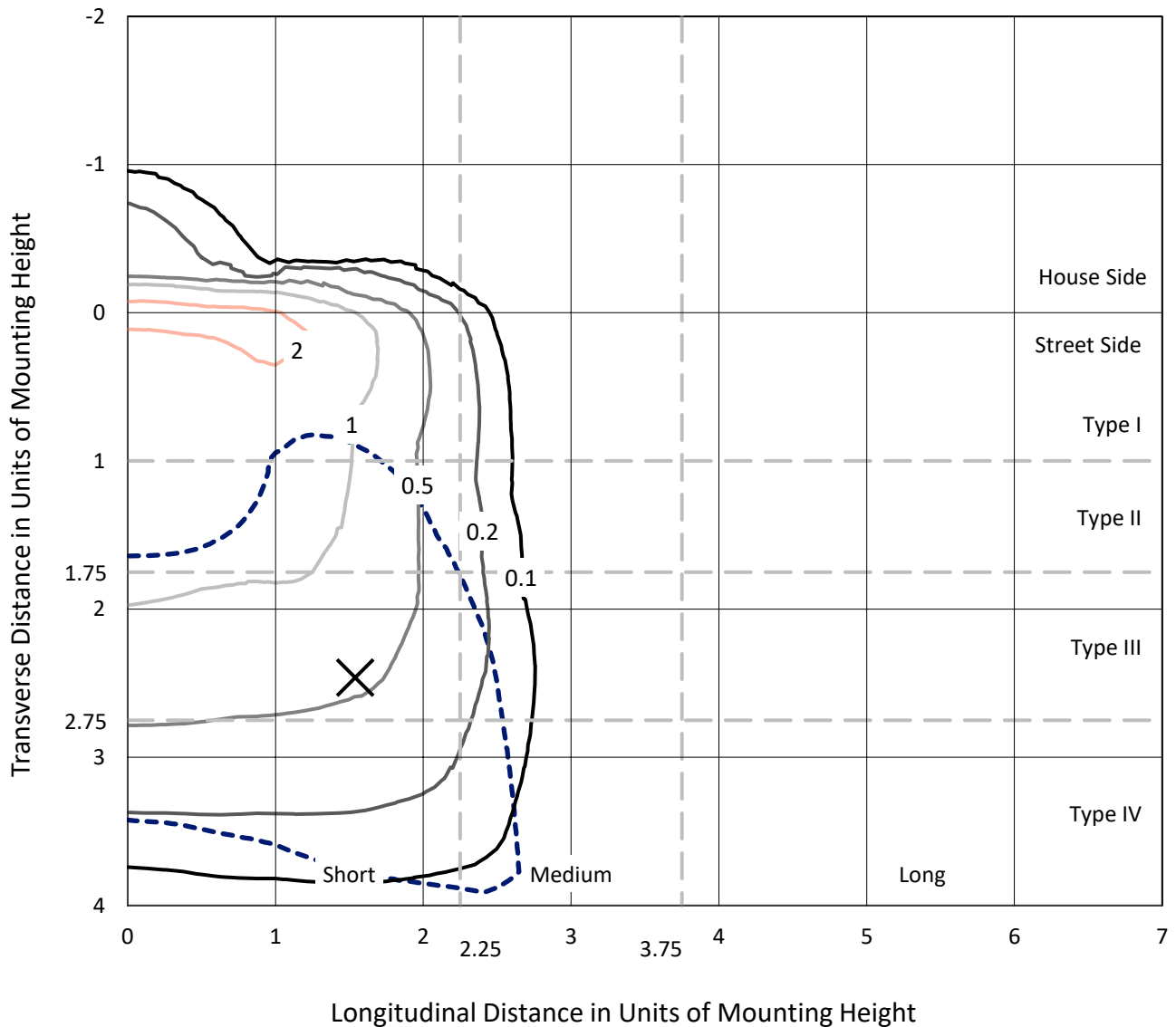
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

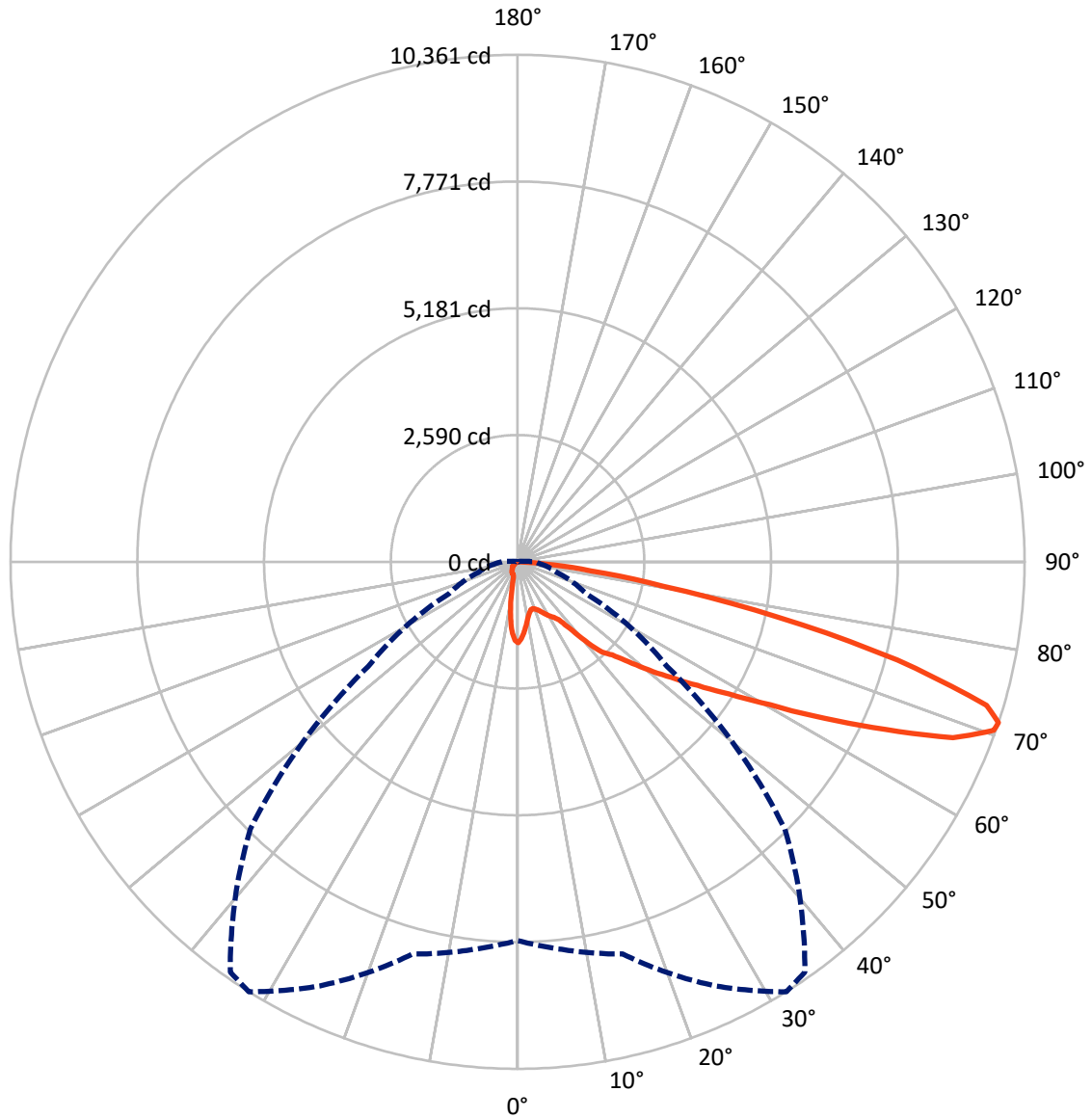
× Max cd
 - - - 1/2 Max cd



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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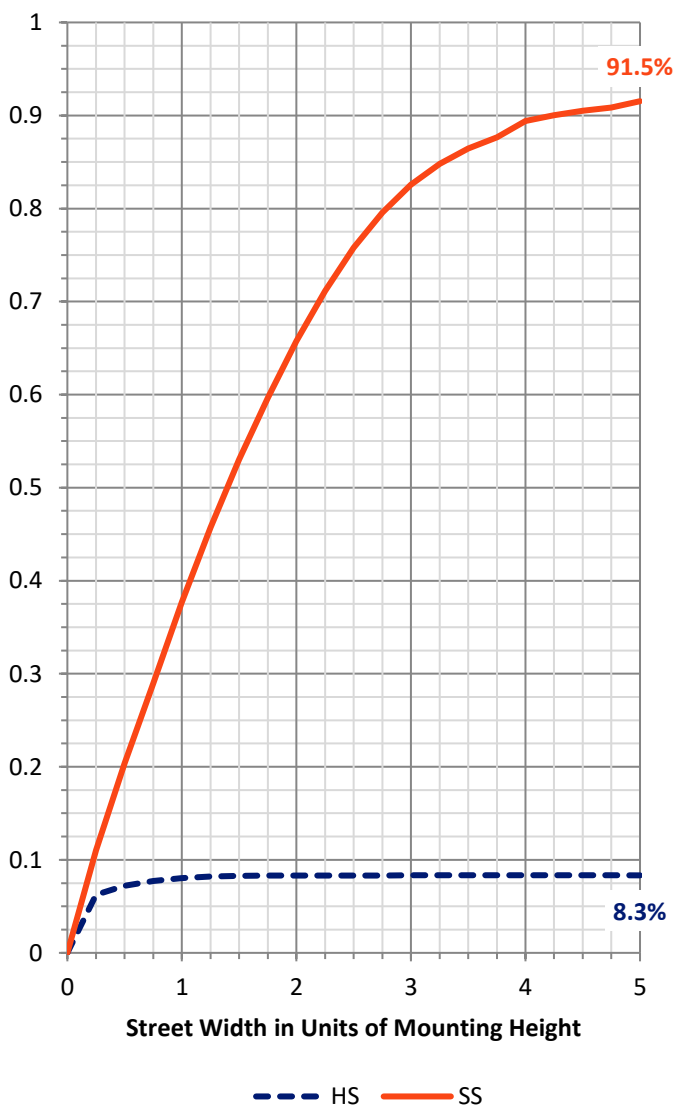
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	861.7	0.0	861.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	9425.5	0.0	9425.5
	% Fixture	91.6	0.0	91.6
Total	Lumens	10287.1	0.0	10287.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.5	1.3
10°-20°	292.0	2.8
20°-30°	454.2	4.4
30°-40°	756.7	7.4
40°-50°	1407.5	13.7
50°-60°	2259.8	22.0
60°-70°	3039.6	29.5
70°-80°	1803.4	17.5
80°-90°	139.4	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°	10287.1	100.0
0°-180°	10287.1	100.0

Coefficient of Utilization



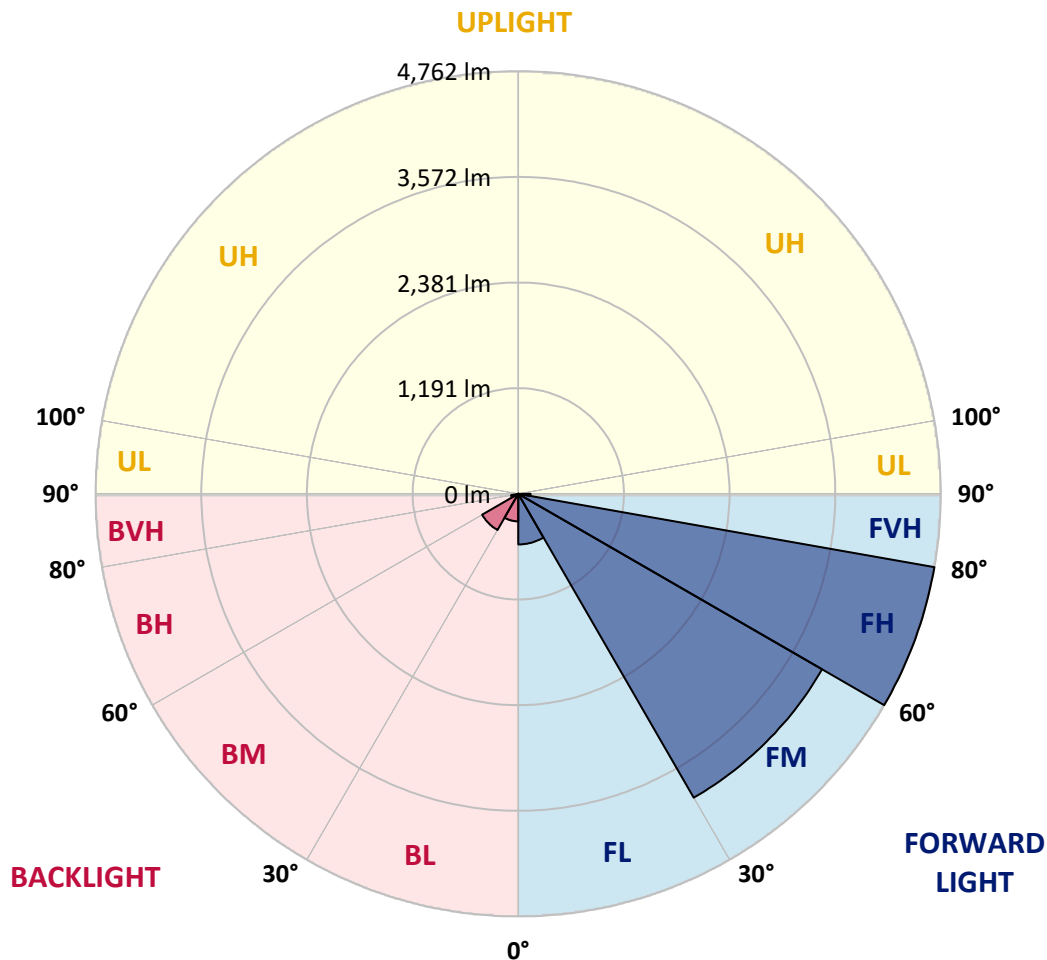
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	570.2	5.5			
FM (30°-60°)	3954.0	38.4			
FH (60°-80°)	4762.4	46.3			G2/5000
FVH (80°-90°)	138.9	1.3			G2/225
BL (0°-30°)	310.5	3.0	B1/500		
BM (30°-60°)	470.1	4.6	B1/1000		
BH (60°-80°)	80.6	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°	1654.3	1654.3	1654.3	1654.3	1654.3	1654.3	1654.3	1654.3	1654.3	1654.3	1654.3
2.5°	1534.3	1550.1	1547.7	1553.2	1566.7	1572.2	1587.2	1603.8	1626.7	1642.5	1652.7
5°	1374.0	1385.9	1387.4	1415.1	1428.5	1443.5	1487.7	1535.9	1589.6	1632.2	1660.6
7.5°	1202.6	1208.9	1221.6	1257.9	1291.9	1306.9	1374.0	1457.7	1542.2	1622.0	1673.3
10°	1061.3	1068.4	1091.3	1130.0	1161.6	1181.4	1274.5	1379.5	1498.0	1616.4	1691.4
12.5°	980.8	984.7	993.4	1028.1	1068.4	1089.7	1190.0	1310.0	1462.4	1618.8	1722.2
15°	975.2	973.6	963.4	977.6	1013.9	1036.0	1133.9	1262.7	1430.9	1626.7	1758.5
17.5°	1004.4	1000.5	976.0	976.0	1006.0	1024.2	1110.3	1237.4	1415.1	1644.8	1809.9
20°	1049.5	1043.2	1002.9	999.7	1028.9	1047.9	1124.5	1239.0	1418.3	1678.8	1878.6
22.5°	1106.3	1099.2	1038.4	1040.0	1071.6	1090.5	1165.5	1267.4	1437.9	1720.7	1952.0
25°	1180.5	1172.6	1100.8	1097.6	1130.8	1147.4	1226.3	1317.9	1465.6	1772.7	2048.3
27.5°	1279.2	1262.7	1176.6	1171.8	1207.4	1228.7	1299.8	1385.9	1514.6	1844.6	2177.9
30°	1360.6	1342.4	1260.3	1247.6	1285.6	1302.1	1375.5	1477.5	1610.9	1970.2	2357.2
32.5°	1467.2	1440.3	1344.0	1310.9	1351.1	1372.4	1485.4	1648.0	1753.8	2102.8	2570.3
35°	1707.2	1690.7	1573.0	1456.9	1454.5	1481.4	1647.2	1820.2	1900.7	2309.7	2860.9
37.5°	2050.7	2038.9	1914.1	1758.5	1713.5	1700.9	1843.8	2009.7	2135.2	2594.0	3198.9
40°	2449.5	2421.9	2307.4	2175.5	2117.0	2080.0	2076.0	2291.6	2441.6	2980.2	3551.1
42.5°	2735.4	2684.8	2545.9	2536.4	2523.8	2485.1	2372.9	2703.8	2837.2	3395.5	3927.7
45°	3035.4	2958.8	2751.9	2716.4	2711.6	2709.3	2821.5	3191.8	3268.4	3845.6	4314.7
47.5°	3268.4	3207.6	3037.8	3022.0	3041.7	3095.5	3414.5	3709.8	3694.0	4246.8	4639.2
50°	3578.7	3533.0	3344.2	3374.2	3476.1	3563.7	4083.3	4274.4	4043.9	4562.6	4875.4
52.5°	3945.1	3860.6	3685.3	3766.7	3923.0	4069.1	4793.2	4768.7	4289.4	4800.3	5051.5
55°	4262.5	4202.6	4142.5	4227.0	4460.7	4643.2	5434.4	5139.1	4467.9	4991.4	5128.8
57.5°	4799.5	4785.3	4723.7	4809.8	5093.3	5282.8	6008.5	5426.6	4582.4	5090.9	5038.0
60°	5593.9	5571.0	5456.5	5566.2	5935.9	6233.6	6537.6	5684.7	4608.4	5052.2	4776.6
62.5°	6549.4	6471.2	6373.4	6535.2	7042.1	7173.2	7035.8	5837.9	4511.3	4744.2	4146.5
65°	7441.7	7361.2	7363.5	7704.7	8256.6	8345.8	7617.0	5815.0	4227.0	3972.7	3058.3
67.5°	8124.7	8111.4	8207.7	8873.4	9595.1	9533.5	8136.6	5472.3	3384.4	2575.1	1625.1
70°	8159.6	8185.5	8462.0	9585.6	10318.4	10220.5	8092.4	4448.1	2110.0	1184.5	640.4
71°	7739.4	7914.7	8296.9	9563.5	10361.0	10234.0	7719.7	3725.6	1547.7	825.9	462.0
72.5°	6595.2	6687.6	7513.6	9000.5	10023.9	9752.2	6774.4	2611.4	991.0	505.4	265.3
75°	3632.4	3859.9	5031.7	7061.1	8017.3	7778.9	4415.0	1240.6	494.3	276.4	109.8
77.5°	1729.3	1685.1	2455.0	4199.4	5436.0	5423.4	2224.4	551.2	288.2	187.1	55.3
80°	494.3	555.9	939.6	1996.3	3018.1	3051.2	854.4	266.1	199.8	146.1	28.4
82.5°	149.3	152.4	345.1	882.8	1501.1	1415.1	320.6	135.8	143.7	116.1	16.6
85°	26.1	32.4	101.8	311.1	572.5	434.3	80.6	64.8	94.8	76.6	9.5
87.5°	1.6	2.4	34.0	35.6	50.5	29.2	14.2	9.5	20.5	20.5	5.6
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°	1654.3	1654.3	1654.3	1654.3	1654.3	1654.3	1654.3	1654.3	1654.3	1654.3	1654.3
2.5°	1659.9	1664.6	1661.4	1654.3	1642.5	1628.3	1609.3	1593.5	1580.1	1573.0	1581.7
5°	1670.1	1676.4	1660.6	1625.1	1571.4	1513.0	1446.7	1395.3	1355.0	1342.4	1337.7
7.5°	1686.0	1689.8	1647.2	1568.3	1454.5	1316.3	1195.6	1093.6	1014.7	991.0	956.3
10°	1706.5	1704.1	1623.6	1476.6	1276.9	1069.2	882.0	743.1	638.1	600.1	596.9
12.5°	1738.0	1725.4	1593.5	1351.9	1065.2	793.6	562.2	439.8	373.5	351.4	346.7
15°	1777.5	1747.5	1546.2	1205.8	815.7	512.5	346.7	309.6	300.8	299.3	297.7
17.5°	1824.1	1776.7	1483.8	1026.5	573.3	332.4	289.8	289.1	289.8	288.2	287.5
20°	1887.3	1807.6	1409.5	814.2	379.0	280.3	276.4	276.4	277.2	276.4	276.4
22.5°	1954.4	1843.8	1317.9	621.5	285.9	266.1	265.3	266.9	268.4	267.7	267.7
25°	2037.3	1891.2	1197.1	425.6	255.8	254.2	255.1	258.2	261.4	262.1	261.4
27.5°	2157.3	1949.7	1067.6	292.9	234.6	236.1	244.0	251.9	256.7	257.4	257.4
30°	2292.4	2014.4	898.6	237.7	217.1	217.1	226.6	241.6	251.9	253.5	254.2
32.5°	2466.1	2089.5	711.5	214.0	200.6	199.0	207.6	225.8	244.8	250.3	250.3
35°	2680.9	2177.9	529.1	199.0	188.7	184.8	189.5	204.5	229.0	244.8	246.4
37.5°	2932.8	2261.5	386.9	185.6	177.7	172.2	175.3	187.1	206.9	230.6	236.9
40°	3165.7	2335.8	289.1	174.5	166.6	162.6	165.0	170.6	187.1	209.2	213.2
42.5°	3420.0	2393.5	229.8	162.6	155.6	154.0	154.0	156.3	167.4	180.1	180.8
45°	3673.5	2414.0	192.7	148.4	143.7	145.3	144.5	142.9	147.7	146.1	146.1
47.5°	3854.3	2389.5	159.5	135.1	135.1	137.4	133.5	127.9	125.6	116.1	116.9
50°	3978.3	2300.3	131.1	119.3	125.6	128.7	120.9	112.1	103.4	93.2	90.8
52.5°	4029.7	2141.5	107.4	98.7	111.3	115.3	105.8	95.5	82.2	73.4	71.1
55°	3996.4	1945.7	89.2	80.6	93.9	98.7	89.2	77.4	62.4	52.9	51.3
57.5°	3850.4	1711.9	75.8	64.0	75.0	78.2	71.8	59.2	44.2	34.7	34.7
60°	3597.6	1470.3	61.6	50.5	56.1	60.8	54.5	42.6	30.0	21.4	19.8
62.5°	3085.2	1194.0	49.8	39.4	39.4	43.4	37.9	30.8	18.9	11.0	10.3
65°	2227.6	818.9	39.4	29.2	28.4	28.4	23.7	20.5	11.0	4.7	3.2
67.5°	1210.5	462.0	31.6	22.1	19.8	18.9	15.0	11.9	4.7	0.8	0.0
70°	476.2	177.7	24.5	15.0	12.6	11.9	7.9	5.6	3.2	0.0	0.0
71°	322.9	122.4	21.4	12.6	10.3	8.7	6.3	4.7	2.4	0.0	0.0
72.5°	184.8	75.8	16.6	9.5	7.9	6.3	4.7	3.2	2.4	0.0	0.0
75°	80.6	38.7	10.3	7.1	5.6	4.0	3.2	2.4	0.8	0.0	0.0
77.5°	41.0	21.4	7.1	5.6	3.2	2.4	1.6	0.8	0.0	0.0	0.0
80°	22.9	11.0	4.7	3.2	2.4	1.6	0.8	0.8	0.0	0.0	0.0
82.5°	12.6	6.3	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.9	4.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	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)