

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: P452566

Luminaire Tested: **GALN-SA3C-730-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452566
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13827 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

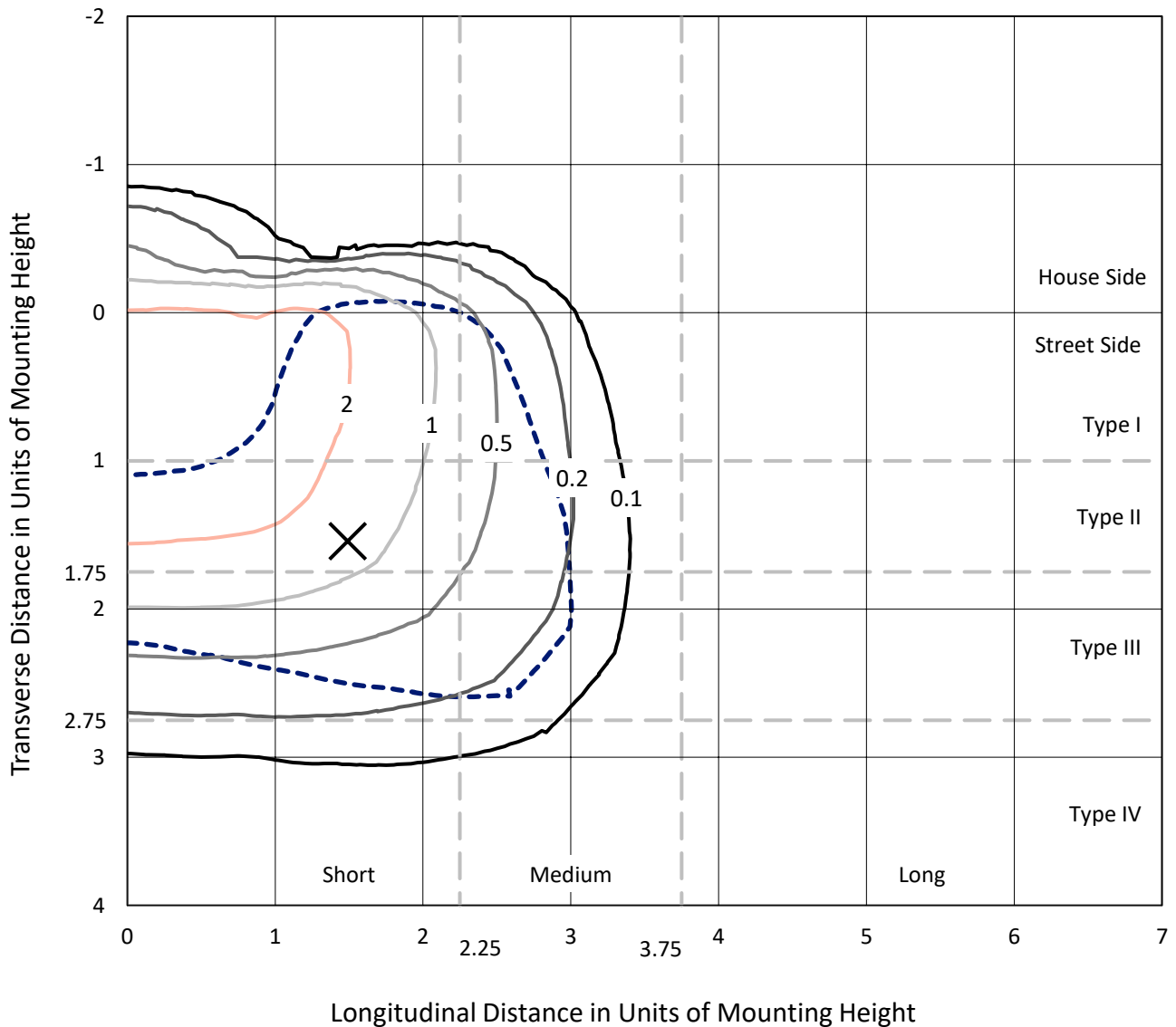
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452566
 CATALOG NUMBER: GALN-SA3C-730-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

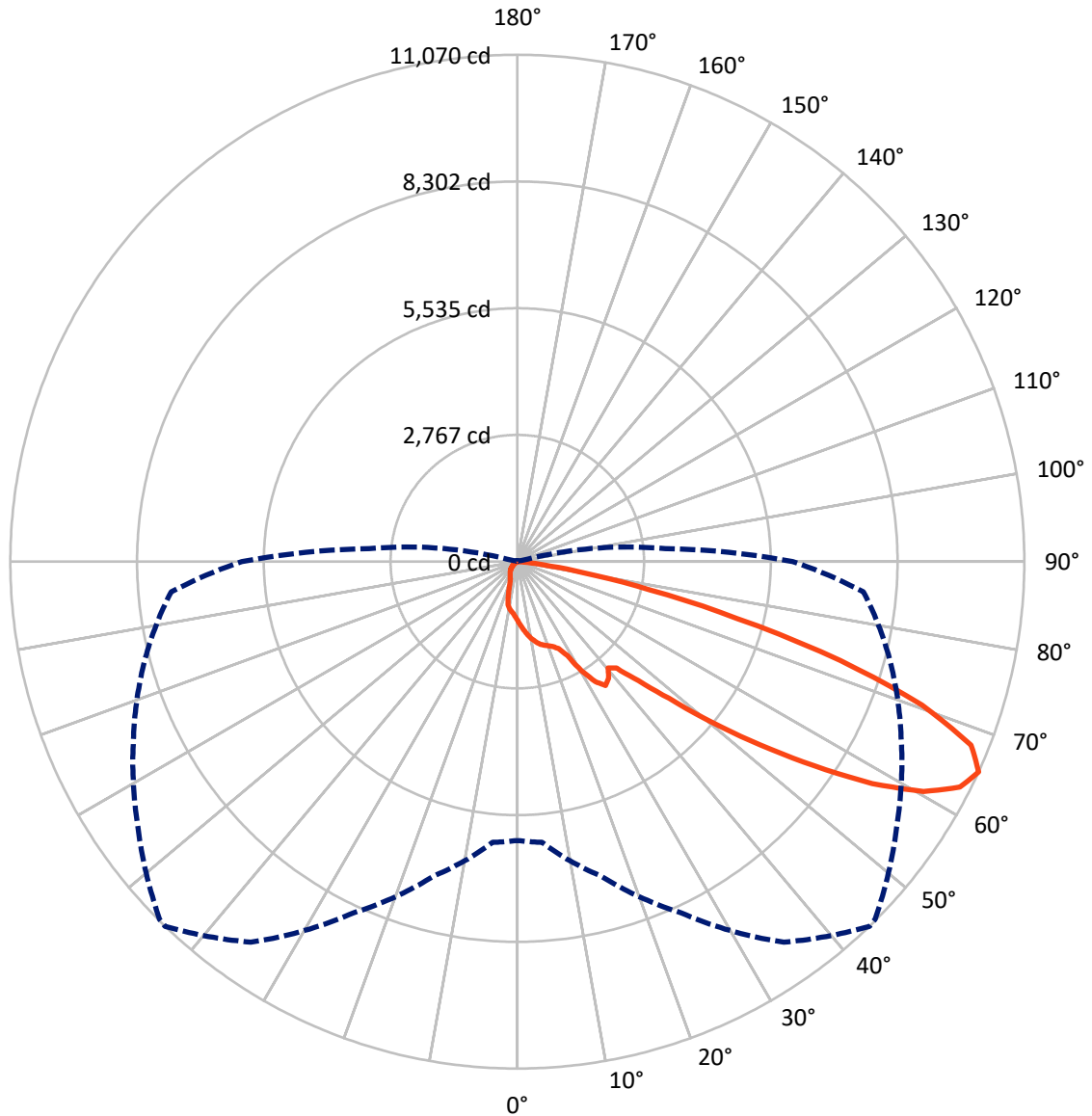
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Short - N/A

REPORT NUMBER: P452566
CATALOG NUMBER: GALN-SA3C-730-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P452566

CATALOG NUMBER: GALN-SA3C-730-U-T4W-HSS

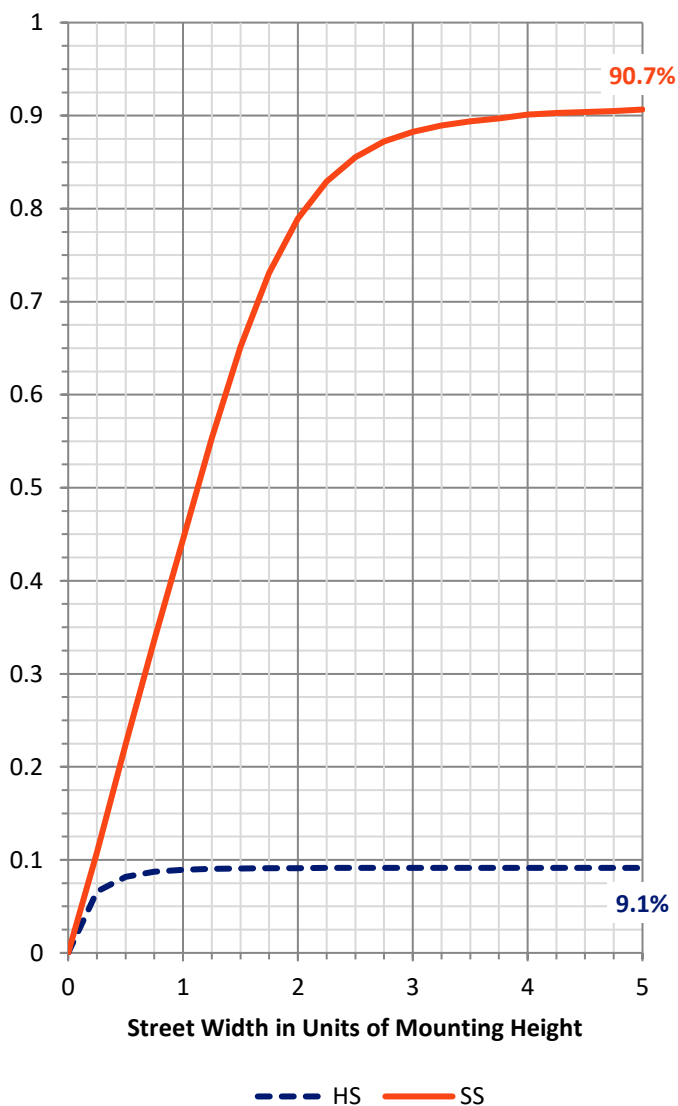
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1273.9	0.0	1273.9
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	12553.1	0.0	12553.1
	% Fixture	90.8	0.0	90.8
Total	Lumens	13827.0	0.0	13827.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.0	0.9
10°-20°	385.2	2.8
20°-30°	653.2	4.7
30°-40°	1086.0	7.9
40°-50°	1896.3	13.7
50°-60°	3704.6	26.8
60°-70°	4298.2	31.1
70°-80°	1565.2	11.3
80°-90°	110.3	0.8
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°	13827.0	100.0
0°-180°	13827.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452566

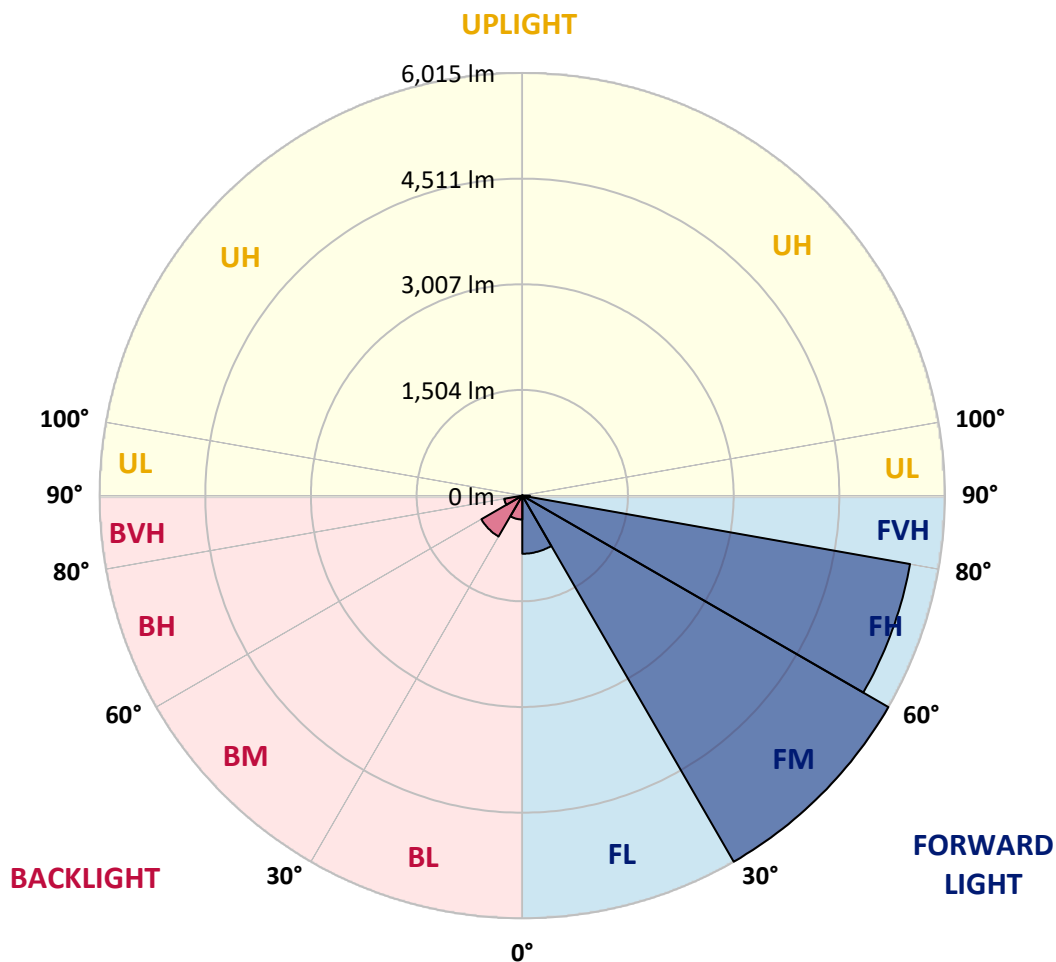
CATALOG NUMBER: GALN-SA3C-730-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	827.0	6.0			
FM	(30°-60°)	6014.8	43.5			
FH	(60°-80°)	5602.5	40.5			G3/7500
FVH	(80°-90°)	108.8	0.8			G2/225
BL	(0°-30°)	339.4	2.5	B1/500		
BM	(30°-60°)	672.1	4.9	B1/1000		
BH	(60°-80°)	260.9	1.9	B1/500		G1/500
BVH	(80°-90°)	1.5	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-G3

Type III Short





REPORT NUMBER: P452566

CATALOG NUMBER: GALN-SA3C-730-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9
2.5°	1448.5	1442.2	1439.0	1422.1	1409.4	1393.6	1393.6	1373.5	1350.3	1324.9	1301.7
5°	1610.2	1599.6	1585.9	1571.1	1541.5	1499.2	1499.2	1457.0	1408.4	1365.1	1317.5
7.5°	1765.5	1756.0	1732.7	1704.2	1655.6	1611.2	1608.1	1546.8	1488.7	1423.2	1355.6
10°	1901.8	1894.4	1874.3	1819.4	1768.7	1710.6	1709.5	1640.8	1573.2	1492.9	1409.4
12.5°	1996.9	1997.9	1971.5	1918.7	1853.2	1798.3	1794.0	1726.4	1655.6	1569.0	1466.5
15°	2064.5	2064.5	2037.0	1977.9	1918.7	1870.1	1865.9	1806.7	1733.8	1639.8	1528.8
17.5°	2083.5	2089.9	2060.3	2007.5	1959.9	1917.6	1916.6	1866.9	1808.8	1718.0	1592.2
20°	2076.1	2082.5	2059.2	2018.0	1985.3	1961.0	1957.8	1937.7	1883.8	1798.3	1659.8
22.5°	2060.3	2066.6	2049.7	2025.4	2009.6	2017.0	2011.7	2028.6	2000.1	1896.5	1740.1
25°	2063.4	2069.8	2057.1	2043.4	2057.1	2102.5	2116.3	2189.2	2163.8	2021.2	1826.8
27.5°	2162.8	2175.4	2157.5	2163.8	2212.4	2318.1	2344.5	2470.2	2358.2	2179.7	1962.0
30°	2383.6	2375.1	2341.3	2372.0	2541.0	2765.0	2757.6	2737.5	2562.1	2362.5	2122.6
32.5°	2584.3	2576.9	2574.8	2706.9	3013.3	3122.1	3116.8	2922.4	2744.9	2571.6	2281.1
35°	2665.7	2637.2	2630.8	2951.0	3463.4	3319.7	3286.9	2998.5	2966.8	2799.9	2442.8
37.5°	2910.8	2890.7	2792.5	2991.1	3283.8	3236.2	3210.9	3129.5	3203.5	3001.7	2625.5
40°	3415.8	3359.8	3271.1	3076.7	3029.1	3049.2	3074.6	3297.5	3483.5	3277.4	2869.6
42.5°	4043.4	4030.7	3865.9	3503.5	3147.5	3174.9	3207.7	3648.3	3886.0	3692.7	3267.9
45°	4796.7	4814.7	4577.0	4149.1	3682.1	3705.3	3752.9	4166.0	4431.2	4338.2	3894.5
47.5°	5481.4	5467.7	5387.4	4942.6	4511.5	4459.7	4536.8	4830.6	5185.6	5200.4	4672.1
50°	6170.3	6243.2	6123.8	5949.4	5629.3	5520.5	5492.0	5635.7	6176.6	6105.8	5606.1
52.5°	7160.3	7198.3	6974.3	6929.9	7002.8	6649.9	6621.4	6656.3	7140.2	6897.2	6305.5
55°	7782.6	7760.4	7676.9	8023.5	8311.9	7871.3	7835.4	7694.9	7940.0	7456.1	6978.5
57.5°	7979.1	8010.8	8205.2	8831.7	9514.3	9140.2	9074.7	8675.4	8516.9	7977.0	7597.7
60°	7891.4	7949.5	8369.0	9300.8	10247.5	10191.5	10135.5	9464.6	8931.0	8412.3	8031.9
62.5°	7267.0	7348.3	8019.2	9217.4	10495.8	10845.5	10775.8	9957.0	9206.8	8623.6	8108.0
65°	6090.0	6150.2	7113.8	8459.8	10142.9	11069.5	11044.1	10111.2	9250.1	8430.2	7587.1
67.5°	4341.4	4546.3	5439.1	7129.6	9099.0	10687.0	10730.4	9926.3	8843.3	7594.5	6283.3
70°	2729.1	2868.5	3508.8	5104.2	7294.4	9375.8	9518.5	9080.0	7674.8	5919.9	4206.1
72.5°	1301.7	1405.2	1861.6	3230.9	5148.6	7376.9	7489.9	7454.0	5934.7	3729.6	2170.2
75°	580.0	619.1	888.6	1649.3	3323.9	4958.4	5251.1	5299.7	3708.5	1824.7	844.2
77.5°	295.8	296.9	416.3	798.8	1659.8	2958.3	3016.5	3186.6	2010.6	804.0	293.7
80°	157.4	168.0	220.8	377.2	861.1	1457.0	1449.6	1593.3	891.7	394.1	98.3
82.5°	70.8	78.2	124.7	197.6	420.5	552.6	595.9	651.9	382.5	251.5	43.3
85°	21.1	25.4	61.3	99.3	152.1	159.5	178.6	230.3	216.6	178.6	22.2
87.5°	3.2	3.2	25.4	27.5	22.2	28.5	29.6	32.8	69.7	65.5	11.6
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°	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9
2.5°	1289.0	1281.6	1255.2	1233.0	1214.0	1202.4	1188.6	1180.2	1175.9	1172.8	1173.8
5°	1294.3	1276.3	1230.9	1195.0	1167.5	1137.9	1117.8	1106.2	1100.9	1092.5	1092.5
7.5°	1323.9	1295.3	1231.9	1177.0	1129.5	1089.3	1051.3	1037.5	1028.0	1025.9	1023.8
10°	1366.1	1330.2	1243.6	1167.5	1099.9	1044.9	991.0	943.5	906.5	884.3	881.2
12.5°	1419.0	1367.2	1261.5	1161.2	1074.5	977.3	834.7	738.5	674.1	654.0	657.2
15°	1467.6	1411.6	1279.5	1155.9	1028.0	810.4	648.7	538.8	506.1	502.9	504.0
17.5°	1525.7	1459.1	1300.6	1148.5	900.2	619.1	481.8	452.2	458.5	469.1	468.1
20°	1585.9	1509.8	1326.0	1104.1	718.5	465.9	425.8	429.0	438.5	448.0	450.1
22.5°	1650.3	1567.9	1355.6	997.4	548.4	405.7	403.6	407.8	417.3	427.9	430.0
25°	1739.1	1640.8	1377.7	857.9	415.2	375.1	379.3	386.7	395.2	406.8	408.9
27.5°	1853.2	1739.1	1389.4	676.2	359.2	347.6	348.7	359.2	369.8	380.4	380.4
30°	2001.1	1856.4	1366.1	511.4	331.8	321.2	317.0	323.3	337.0	347.6	348.7
32.5°	2133.2	1967.3	1304.8	390.9	311.7	296.9	286.3	287.4	292.7	299.0	300.1
35°	2265.2	2075.1	1200.2	328.6	290.6	273.6	257.8	249.3	245.1	242.0	245.1
37.5°	2434.3	2209.3	1060.8	299.0	272.6	251.5	229.3	211.3	196.5	187.0	189.1
40°	2651.9	2395.2	896.0	280.0	255.7	230.3	200.7	177.5	152.1	143.7	139.5
42.5°	3011.2	2677.3	722.7	264.1	238.8	208.1	171.2	139.5	116.2	107.8	109.9
45°	3578.5	3033.4	556.8	247.2	221.9	183.8	143.7	109.9	90.9	86.6	88.8
47.5°	4330.8	3494.0	429.0	228.2	200.7	157.4	113.1	86.6	75.0	74.0	72.9
50°	5038.7	3923.0	358.2	207.1	175.4	131.0	93.0	72.9	65.5	64.4	64.4
52.5°	5679.0	4230.4	291.6	182.8	147.9	107.8	78.2	64.4	58.1	54.9	54.9
55°	6248.5	4431.2	236.7	153.2	116.2	85.6	67.6	58.1	50.7	46.5	45.4
57.5°	6678.5	4455.5	177.5	122.6	86.6	66.6	58.1	50.7	42.3	37.0	34.9
60°	6862.3	4245.2	131.0	93.0	64.4	52.8	46.5	41.2	31.7	26.4	25.4
62.5°	6677.4	3836.3	97.2	70.8	49.7	39.1	32.8	30.6	22.2	15.8	14.8
65°	6015.0	3245.7	77.1	53.9	37.0	28.5	21.1	20.1	13.7	7.4	6.3
67.5°	4818.9	2542.1	61.3	40.1	26.4	19.0	13.7	12.7	7.4	2.1	2.1
70°	3133.7	1625.0	49.7	29.6	16.9	12.7	8.5	6.3	4.2	1.1	0.0
72.5°	1550.0	759.7	40.1	23.2	11.6	6.3	3.2	2.1	3.2	0.0	0.0
75°	601.2	270.5	29.6	15.8	6.3	3.2	2.1	0.0	1.1	0.0	0.0
77.5°	199.7	89.8	18.0	8.5	4.2	2.1	0.0	0.0	0.0	0.0	0.0
80°	74.0	34.9	9.5	5.3	2.1	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	29.6	13.7	6.3	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.8	8.5	4.2	3.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.6	6.3	4.2	3.2	2.1	1.1	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)