

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: P451638

Luminaire Tested: **GALN-SA2C-730-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451638
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-SA2C-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 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: 9314 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

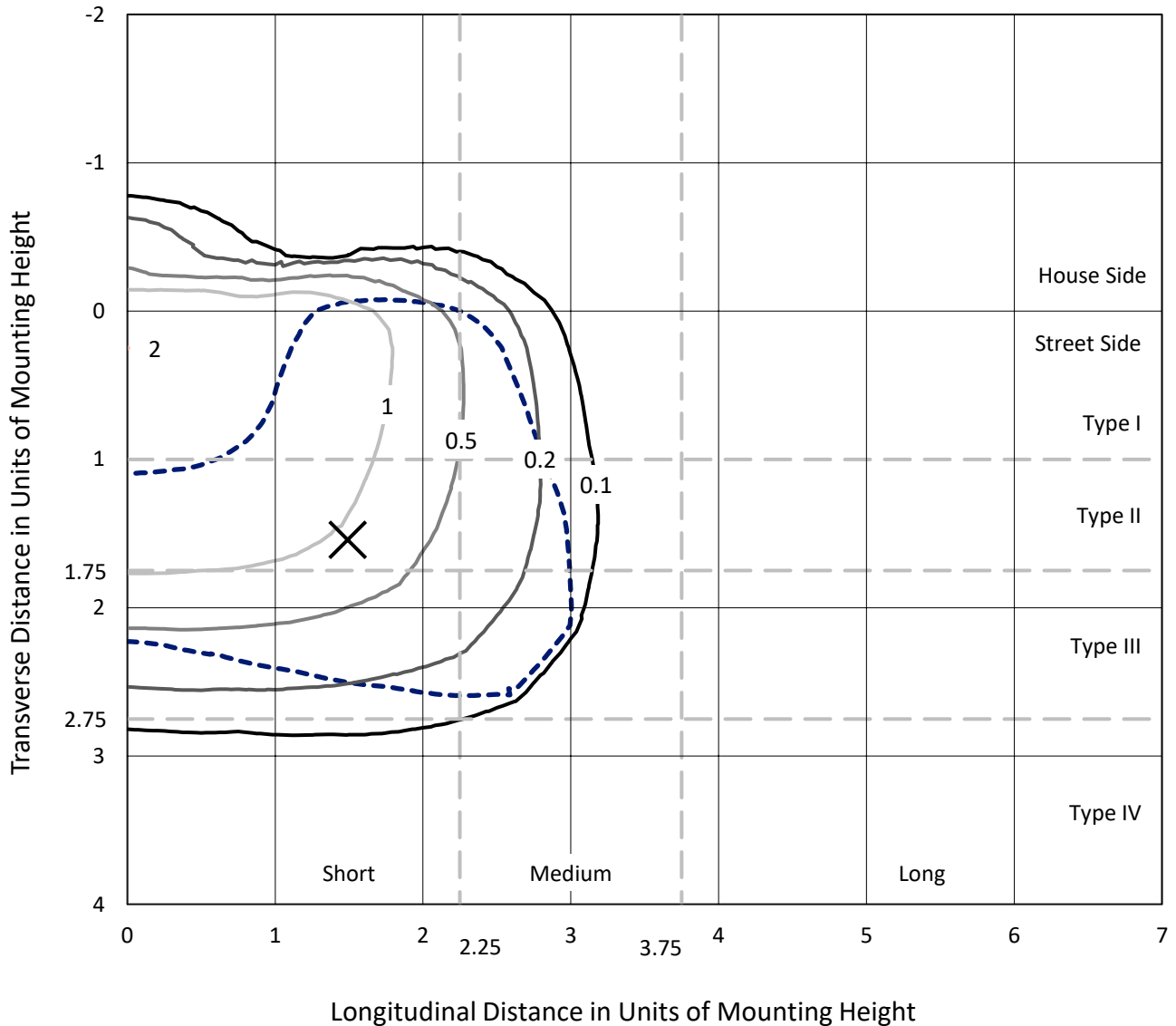
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

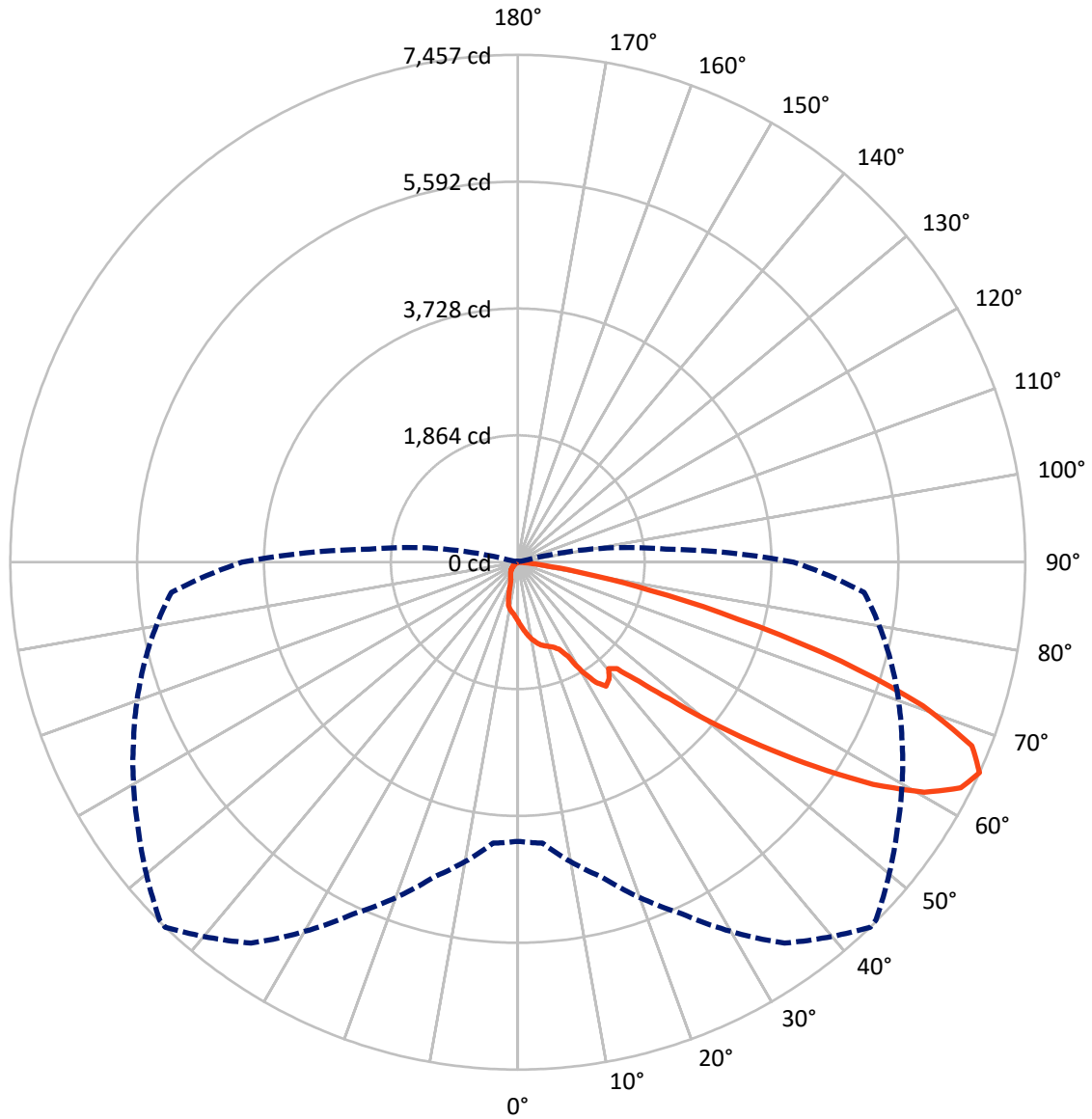
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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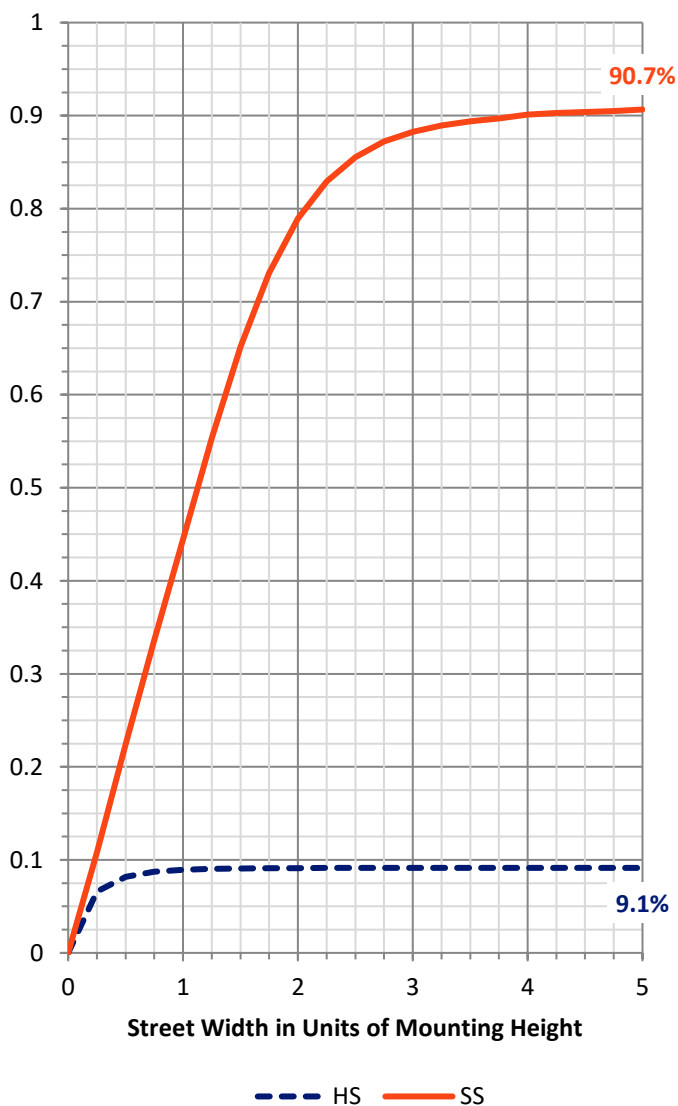
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	858.1	0.0	858.1
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	8455.9	0.0	8455.9
	% Fixture	90.8	0.0	90.8
Total	Lumens	9314.0	0.0	9314.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	0.9
10°-20°	259.5	2.8
20°-30°	440.0	4.7
30°-40°	731.6	7.9
40°-50°	1277.3	13.7
50°-60°	2495.5	26.8
60°-70°	2895.3	31.1
70°-80°	1054.3	11.3
80°-90°	74.3	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°	9314.0	100.0
0°-180°	9314.0	100.0

Coefficient of Utilization



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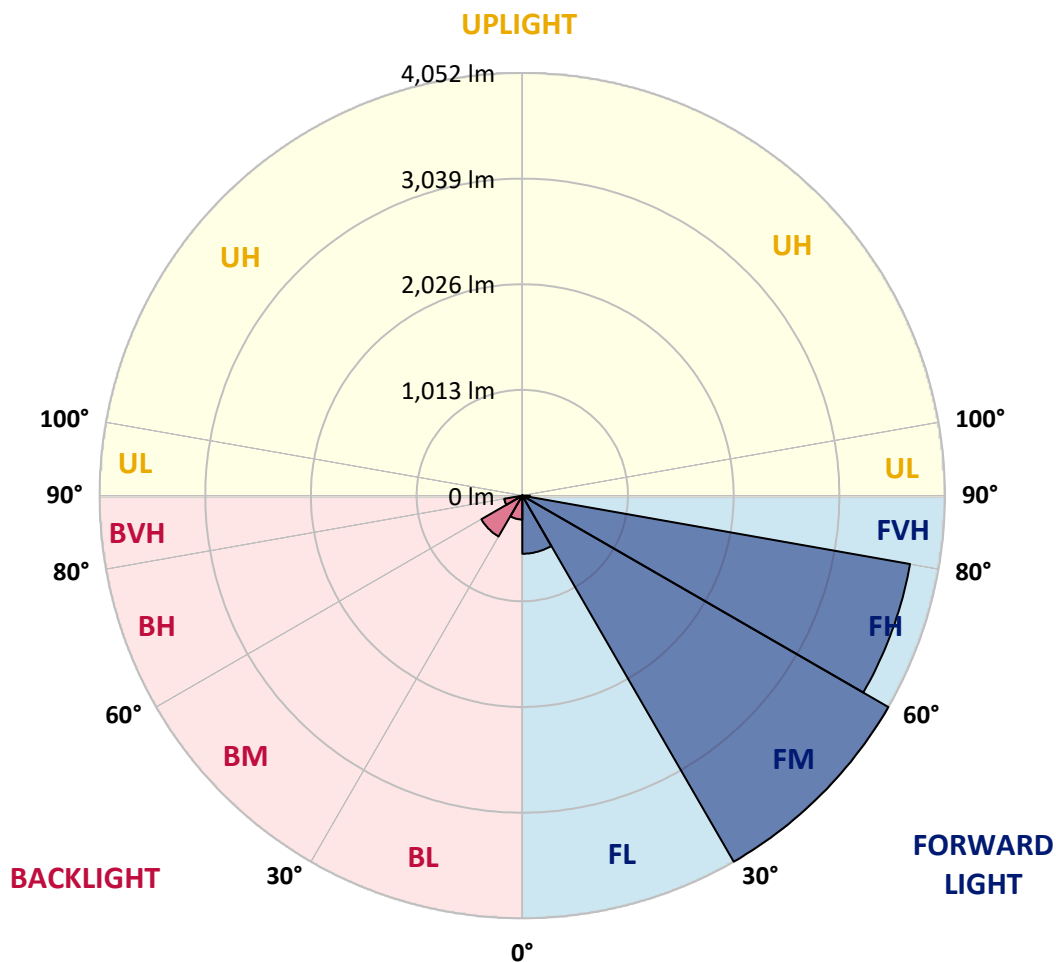
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	557.1	6.0			
FM (30°-60°)	4051.6	43.5			
FH (60°-80°)	3773.9	40.5			G2/5000
FVH (80°-90°)	73.3	0.8			G1/100
BL (0°-30°)	228.6	2.5	B1/500		
BM (30°-60°)	452.8	4.9	B1/1000		
BH (60°-80°)	175.7	1.9	B1/500		G1/500
BVH (80°-90°)	1.0	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	866.9	866.9	866.9	866.9	866.9	866.9	866.9	866.9	866.9	866.9	866.9
2.5°	975.7	971.5	969.3	958.0	949.4	938.7	938.7	925.2	909.6	892.5	876.8
5°	1084.6	1077.5	1068.3	1058.3	1038.4	1009.9	1009.9	981.4	948.7	919.5	887.5
7.5°	1189.3	1182.9	1167.2	1148.0	1115.2	1085.3	1083.2	1041.9	1002.8	958.7	913.1
10°	1281.1	1276.1	1262.6	1225.6	1191.4	1152.2	1151.5	1105.3	1059.7	1005.6	949.4
12.5°	1345.1	1345.8	1328.0	1292.5	1248.3	1211.3	1208.5	1162.9	1115.2	1056.9	987.8
15°	1390.7	1390.7	1372.2	1332.3	1292.5	1259.7	1256.9	1217.0	1167.9	1104.6	1029.8
17.5°	1403.5	1407.8	1387.8	1352.2	1320.2	1291.7	1291.0	1257.6	1218.4	1157.2	1072.5
20°	1398.5	1402.8	1387.1	1359.4	1337.3	1320.9	1318.8	1305.3	1269.0	1211.3	1118.1
22.5°	1387.8	1392.1	1380.7	1364.3	1353.7	1358.6	1355.1	1366.5	1347.3	1277.5	1172.2
25°	1390.0	1394.2	1385.7	1376.4	1385.7	1416.3	1425.5	1474.7	1457.6	1361.5	1230.5
27.5°	1456.9	1465.4	1453.3	1457.6	1490.3	1561.5	1579.3	1664.0	1588.5	1468.2	1321.6
30°	1605.6	1599.9	1577.1	1597.8	1711.6	1862.5	1857.5	1844.0	1725.9	1591.4	1429.8
32.5°	1740.8	1735.8	1734.4	1823.4	2029.8	2103.1	2099.5	1968.6	1849.0	1732.3	1536.6
35°	1795.6	1776.4	1772.1	1987.8	2333.0	2236.2	2214.1	2019.8	1998.5	1886.0	1645.5
37.5°	1960.7	1947.2	1881.0	2014.8	2212.0	2179.9	2162.9	2108.1	2157.9	2022.0	1768.6
40°	2300.9	2263.2	2203.4	2072.5	2040.5	2054.0	2071.1	2221.2	2346.5	2207.7	1933.0
42.5°	2723.7	2715.2	2604.1	2360.0	2120.2	2138.7	2160.7	2457.5	2617.6	2487.4	2201.3
45°	3231.1	3243.2	3083.1	2794.9	2480.3	2495.9	2528.0	2806.2	2984.9	2922.3	2623.3
47.5°	3692.3	3683.1	3629.0	3329.4	3039.0	3004.1	3056.1	3253.9	3493.0	3503.0	3147.2
50°	4156.4	4205.5	4125.0	4007.6	3792.0	3718.7	3699.4	3796.2	4160.6	4112.9	3776.3
52.5°	4823.2	4848.8	4698.0	4668.1	4717.2	4479.5	4460.2	4483.7	4809.7	4646.0	4247.5
55°	5242.4	5227.5	5171.2	5404.7	5599.0	5302.2	5278.0	5183.3	5348.5	5022.5	4700.8
57.5°	5374.8	5396.1	5527.1	5949.1	6408.9	6157.0	6112.8	5843.8	5737.0	5373.4	5117.9
60°	5315.7	5354.9	5637.4	6265.1	6902.8	6865.1	6827.4	6375.4	6016.0	5666.6	5410.4
62.5°	4895.1	4949.9	5401.8	6208.9	7070.1	7305.6	7258.7	6707.1	6201.8	5808.9	5461.6
65°	4102.3	4142.8	4791.9	5698.6	6832.4	7456.5	7439.4	6811.0	6231.0	5678.7	5110.7
67.5°	2924.4	3062.5	3663.9	4802.6	6129.2	7198.9	7228.1	6686.5	5957.0	5115.7	4232.5
70°	1838.3	1932.3	2363.6	3438.2	4913.6	6315.7	6411.7	6116.4	5169.8	3987.7	2833.3
72.5°	876.8	946.6	1254.0	2176.4	3468.1	4969.1	5045.3	5021.1	3997.6	2512.3	1461.8
75°	390.7	417.1	598.5	1111.0	2239.0	3340.0	3537.2	3569.9	2498.1	1229.1	568.7
77.5°	199.3	200.0	280.4	538.0	1118.1	1992.8	2031.9	2146.5	1354.4	541.6	197.9
80°	106.0	113.2	148.7	254.1	580.0	981.4	976.5	1073.2	600.7	265.5	66.2
82.5°	47.7	52.7	84.0	133.1	283.3	372.2	401.4	439.1	257.6	169.4	29.2
85°	14.2	17.1	41.3	66.9	102.5	107.5	120.3	155.2	145.9	120.3	14.9
87.5°	2.1	2.1	17.1	18.5	14.9	19.2	19.9	22.1	47.0	44.1	7.8
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°	866.9	866.9	866.9	866.9	866.9	866.9	866.9	866.9	866.9	866.9	866.9
2.5°	868.3	863.3	845.5	830.6	817.7	809.9	800.7	795.0	792.1	790.0	790.7
5°	871.8	859.7	829.1	804.9	786.4	766.5	753.0	745.2	741.6	735.9	735.9
7.5°	891.8	872.5	829.8	792.8	760.8	733.8	708.1	698.9	692.5	691.1	689.6
10°	920.2	896.0	837.7	786.4	740.9	703.9	667.6	635.6	610.6	595.7	593.6
12.5°	955.8	920.9	849.8	782.2	723.8	658.3	562.2	497.5	454.1	440.5	442.7
15°	988.6	950.8	861.9	778.6	692.5	545.9	437.0	363.0	340.9	338.8	339.5
17.5°	1027.7	982.9	876.1	773.6	606.4	417.1	324.5	304.6	308.9	316.0	315.3
20°	1068.3	1017.0	893.2	743.7	484.0	313.9	286.8	289.0	295.4	301.8	303.2
22.5°	1111.7	1056.2	913.1	671.8	369.4	273.3	271.9	274.7	281.1	288.2	289.7
25°	1171.5	1105.3	928.1	577.9	279.7	252.7	255.5	260.5	266.2	274.0	275.4
27.5°	1248.3	1171.5	935.9	455.5	242.0	234.2	234.9	242.0	249.1	256.2	256.2
30°	1348.0	1250.5	920.2	344.5	223.5	216.4	213.5	217.8	227.0	234.2	234.9
32.5°	1436.9	1325.2	879.0	263.3	210.0	200.0	192.9	193.6	197.1	201.4	202.1
35°	1525.9	1397.8	808.5	221.3	195.7	184.3	173.7	168.0	165.1	163.0	165.1
37.5°	1639.8	1488.2	714.6	201.4	183.6	169.4	154.4	142.3	132.4	126.0	127.4
40°	1786.4	1613.4	603.5	188.6	172.2	155.2	135.2	119.6	102.5	96.8	93.9
42.5°	2028.4	1803.5	486.8	177.9	160.8	140.2	115.3	93.9	78.3	72.6	74.0
45°	2410.5	2043.3	375.1	166.5	149.5	123.8	96.8	74.0	61.2	58.4	59.8
47.5°	2917.3	2353.6	289.0	153.7	135.2	106.0	76.2	58.4	50.5	49.8	49.1
50°	3394.1	2642.6	241.3	139.5	118.1	88.3	62.6	49.1	44.1	43.4	43.4
52.5°	3825.4	2849.7	196.4	123.1	99.6	72.6	52.7	43.4	39.1	37.0	37.0
55°	4209.0	2984.9	159.4	103.2	78.3	57.6	45.5	39.1	34.2	31.3	30.6
57.5°	4498.7	3001.3	119.6	82.6	58.4	44.8	39.1	34.2	28.5	24.9	23.5
60°	4622.5	2859.6	88.3	62.6	43.4	35.6	31.3	27.8	21.4	17.8	17.1
62.5°	4498.0	2584.2	65.5	47.7	33.5	26.3	22.1	20.6	14.9	10.7	10.0
65°	4051.7	2186.4	52.0	36.3	24.9	19.2	14.2	13.5	9.3	5.0	4.3
67.5°	3246.1	1712.4	41.3	27.0	17.8	12.8	9.3	8.5	5.0	1.4	1.4
70°	2110.9	1094.6	33.5	19.9	11.4	8.5	5.7	4.3	2.8	0.7	0.0
72.5°	1044.1	511.7	27.0	15.7	7.8	4.3	2.1	1.4	2.1	0.0	0.0
75°	405.0	182.2	19.9	10.7	4.3	2.1	1.4	0.0	0.7	0.0	0.0
77.5°	134.5	60.5	12.1	5.7	2.8	1.4	0.0	0.0	0.0	0.0	0.0
80°	49.8	23.5	6.4	3.6	1.4	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	19.9	9.3	4.3	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.0	5.7	2.8	2.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.1	4.3	2.8	2.1	1.4	0.7	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)