

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: P452102

Luminaire Tested: **GALN-SA3A-730-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452102
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-SA3A-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA 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: 8994 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

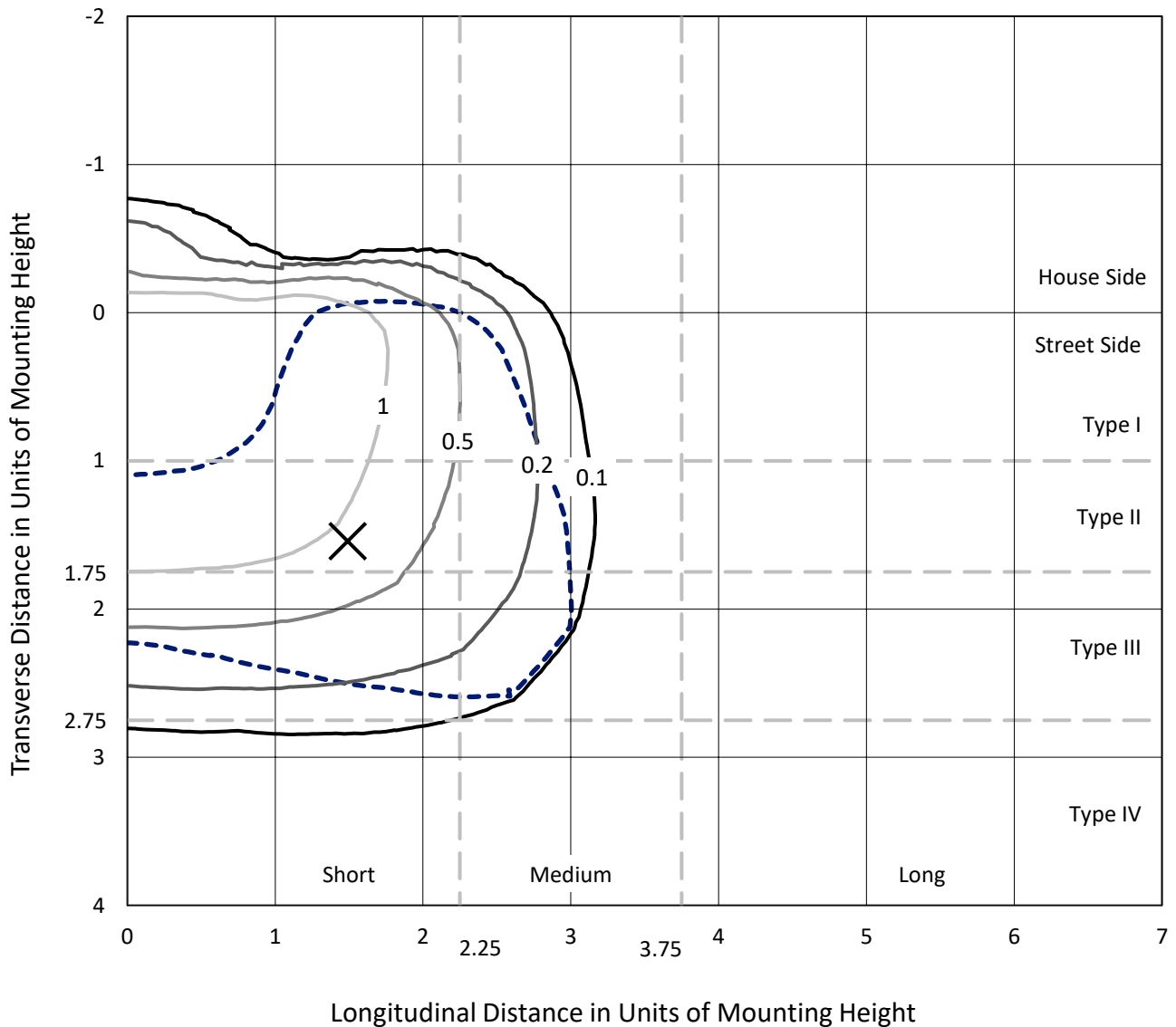
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

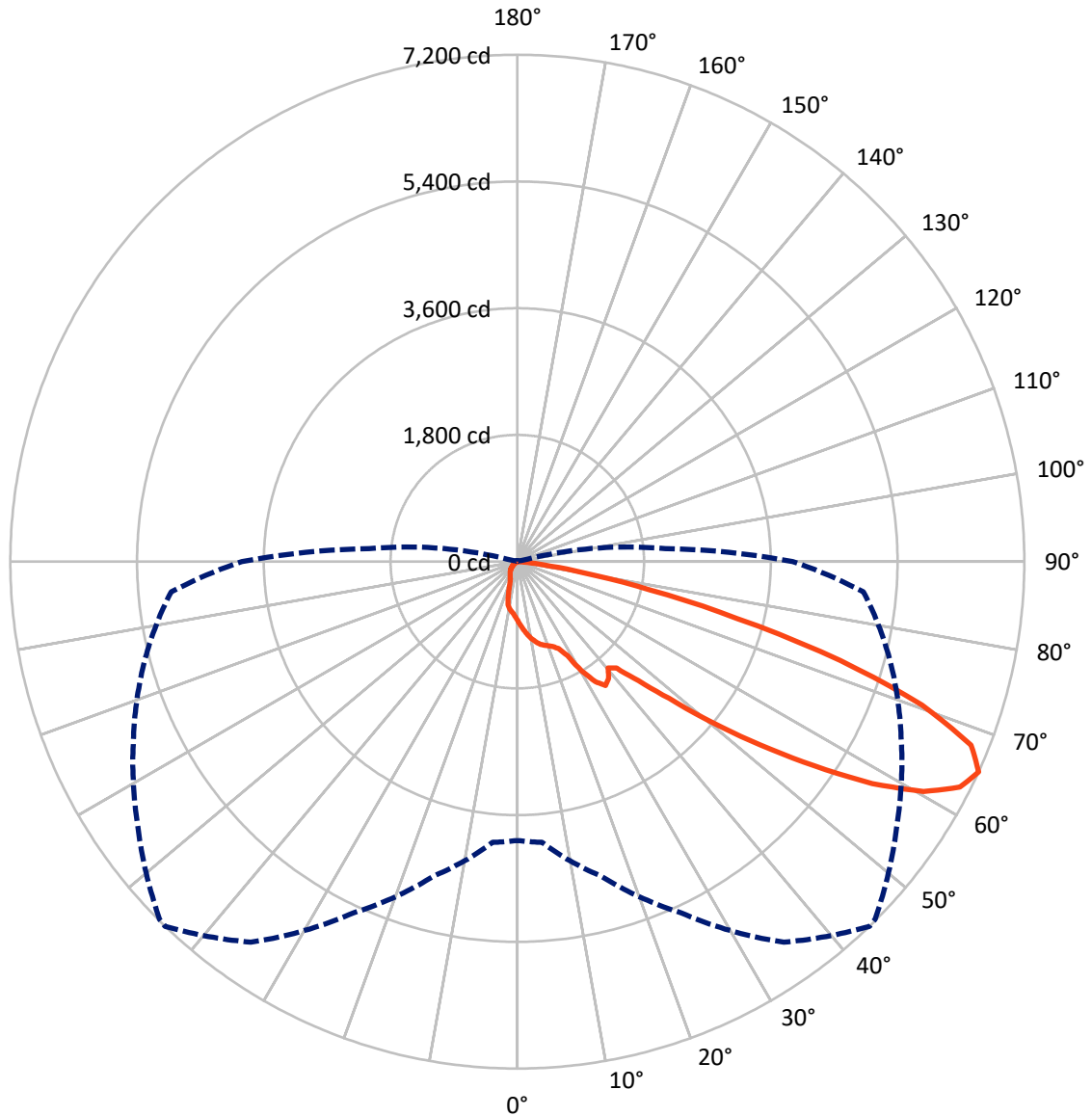
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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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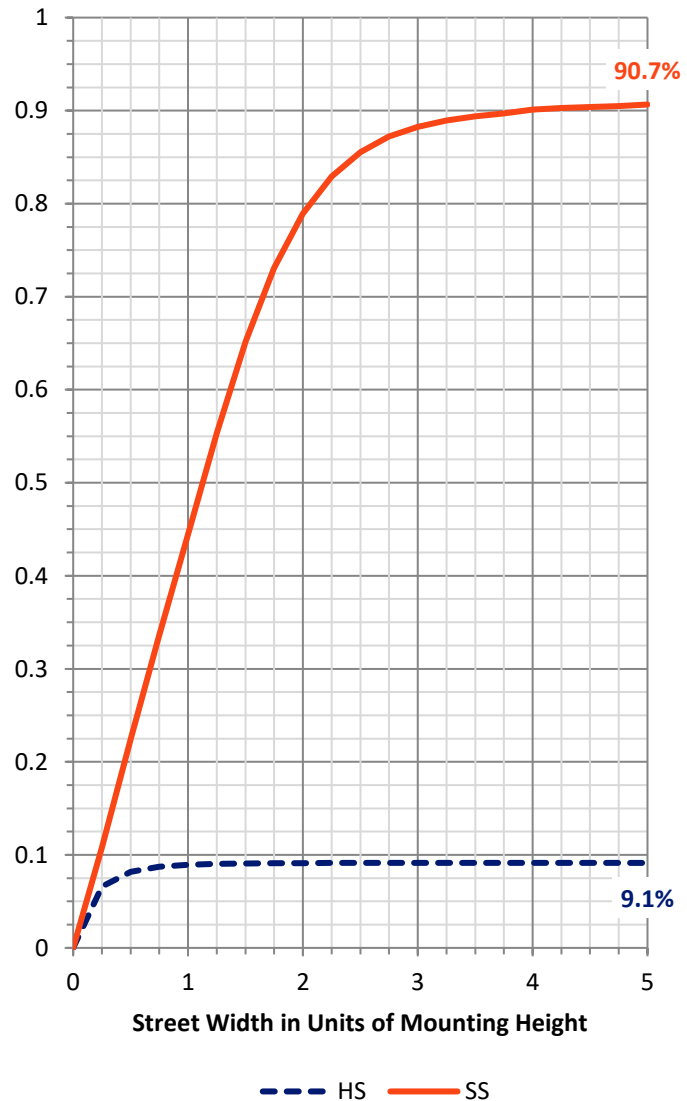
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	828.7	0.0	828.7
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	8165.3	0.0	8165.3
	% Fixture	90.8	0.0	90.8
Total	Lumens	8994.0	0.0	8994.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.3	0.9
10°-20°	250.6	2.8
20°-30°	424.9	4.7
30°-40°	706.4	7.9
40°-50°	1233.5	13.7
50°-60°	2409.7	26.8
60°-70°	2795.8	31.1
70°-80°	1018.1	11.3
80°-90°	71.7	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°	8994.0	100.0
0°-180°	8994.0	100.0



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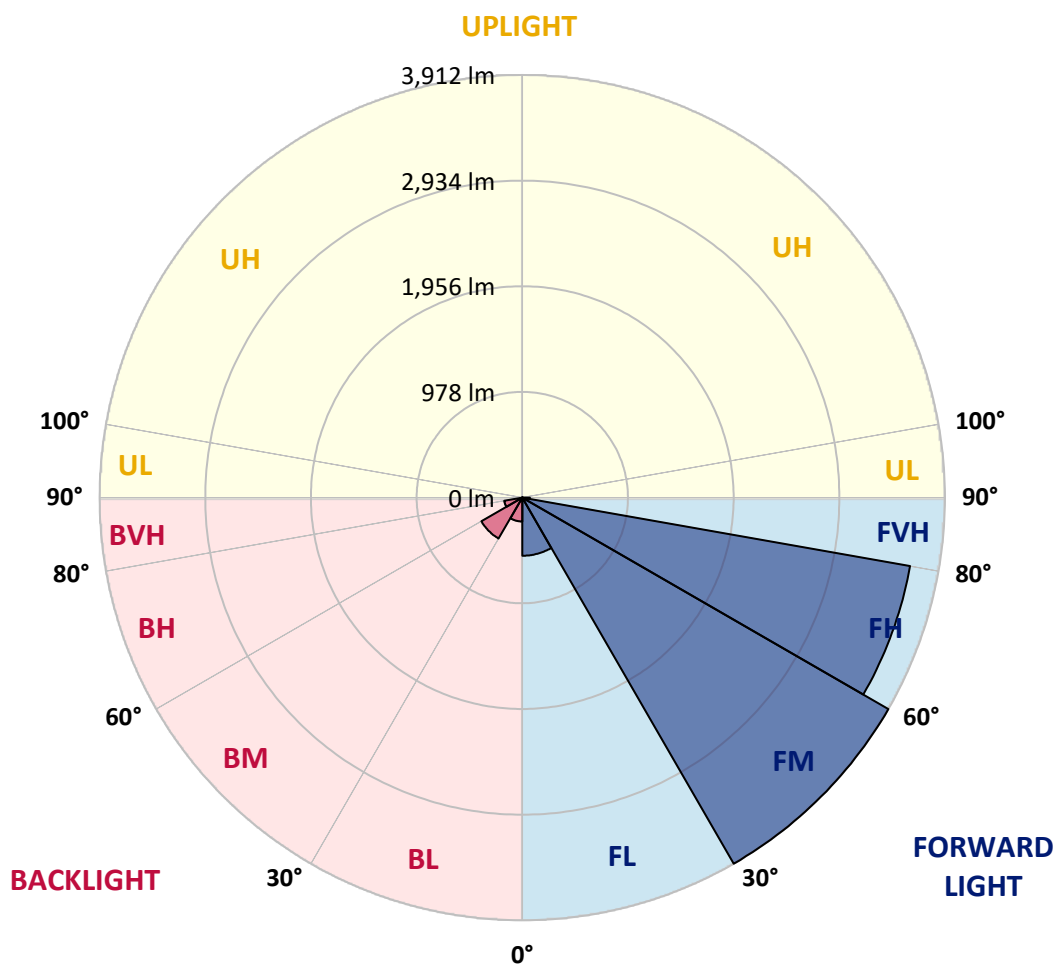
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	537.9	6.0			
FM	(30°-60°)	3912.4	43.5			
FH	(60°-80°)	3644.3	40.5			G2/5000
FVH	(80°-90°)	70.8	0.8			G1/100
BL	(0°-30°)	220.8	2.5	B1/500		
BM	(30°-60°)	437.2	4.9	B1/1000		
BH	(60°-80°)	169.7	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°	837.1	837.1	837.1	837.1	837.1	837.1	837.1	837.1	837.1	837.1	837.1
2.5°	942.2	938.1	936.0	925.0	916.8	906.5	906.5	893.4	878.3	861.8	846.7
5°	1047.4	1040.5	1031.6	1021.9	1002.7	975.2	975.2	947.7	916.1	887.9	857.0
7.5°	1148.4	1142.2	1127.1	1108.5	1076.9	1048.1	1046.0	1006.1	968.3	925.7	881.7
10°	1237.1	1232.2	1219.2	1183.4	1150.5	1112.7	1112.0	1067.3	1023.3	971.1	916.8
12.5°	1298.9	1299.6	1282.4	1248.0	1205.4	1169.7	1167.0	1123.0	1076.9	1020.6	953.9
15°	1342.9	1342.9	1325.0	1286.5	1248.0	1216.4	1213.7	1175.2	1127.8	1066.6	994.5
17.5°	1355.3	1359.4	1340.1	1305.8	1274.9	1247.4	1246.7	1214.4	1176.6	1117.5	1035.7
20°	1350.5	1354.6	1339.5	1312.7	1291.3	1275.5	1273.5	1260.4	1225.4	1169.7	1079.7
22.5°	1340.1	1344.3	1333.3	1317.5	1307.2	1312.0	1308.5	1319.5	1301.0	1233.6	1131.9
25°	1342.2	1346.3	1338.1	1329.1	1338.1	1367.6	1376.6	1424.0	1407.5	1314.7	1188.3
27.5°	1406.8	1415.1	1403.4	1407.5	1439.1	1507.8	1525.0	1606.8	1533.9	1417.8	1276.2
30°	1550.4	1544.9	1523.0	1542.9	1652.8	1798.5	1793.7	1780.7	1666.6	1536.7	1380.7
32.5°	1681.0	1676.2	1674.8	1760.7	1960.0	2030.8	2027.4	1900.9	1785.5	1672.8	1483.8
35°	1733.9	1715.4	1711.3	1919.5	2252.8	2159.3	2138.0	1950.4	1929.8	1821.2	1588.9
37.5°	1893.4	1880.3	1816.4	1945.6	2136.0	2105.1	2088.6	2035.6	2083.7	1952.5	1707.8
40°	2221.9	2185.5	2127.7	2001.3	1970.4	1983.4	1999.9	2144.9	2265.9	2131.9	1866.6
42.5°	2630.1	2621.9	2514.7	2278.9	2047.3	2065.2	2086.5	2373.1	2527.7	2401.9	2125.7
45°	3120.1	3131.8	2977.2	2698.8	2395.1	2410.2	2441.1	2709.8	2882.3	2821.9	2533.2
47.5°	3565.5	3556.5	3504.3	3215.0	2934.6	2900.9	2951.1	3142.1	3373.0	3382.7	3039.0
50°	4013.6	4061.0	3983.3	3869.9	3661.7	3590.9	3572.3	3665.8	4017.7	3971.6	3646.6
52.5°	4657.5	4682.2	4536.6	4507.7	4555.1	4325.6	4307.0	4329.7	4644.5	4486.4	4101.5
55°	5062.3	5047.9	4993.6	5219.0	5406.6	5120.0	5096.7	5005.3	5164.7	4849.9	4539.3
57.5°	5190.1	5210.7	5337.2	5744.7	6188.7	5945.4	5902.8	5643.0	5539.9	5188.8	4942.0
60°	5133.1	5170.9	5443.7	6049.9	6665.7	6629.2	6592.8	6156.4	5809.3	5471.9	5224.5
62.5°	4726.9	4779.8	5216.2	5995.6	6827.2	7054.6	7009.3	6476.7	5988.7	5609.4	5274.0
65°	3961.3	4000.5	4627.3	5502.8	6597.6	7200.3	7183.8	6577.0	6016.9	5483.6	4935.2
67.5°	2823.9	2957.2	3538.0	4637.6	5918.6	6951.6	6979.7	6456.7	5752.3	4940.0	4087.1
70°	1775.2	1865.9	2282.4	3320.1	4744.8	6098.7	6191.5	5906.2	4992.2	3850.7	2736.0
72.5°	846.7	914.0	1210.9	2101.6	3349.0	4798.4	4871.9	4848.6	3860.3	2426.0	1411.6
75°	377.3	402.7	578.0	1072.8	2162.1	3225.3	3415.6	3447.3	2412.3	1186.9	549.1
77.5°	192.4	193.1	270.8	519.6	1079.7	1924.3	1962.1	2072.8	1307.8	523.0	191.1
80°	102.4	109.3	143.6	245.3	560.1	947.7	942.9	1036.4	580.0	256.3	63.9
82.5°	46.0	50.9	81.1	128.5	273.5	359.4	387.6	424.0	248.8	163.6	28.2
85°	13.7	16.5	39.9	64.6	99.0	103.8	116.1	149.8	140.9	116.1	14.4
87.5°	2.1	2.1	16.5	17.9	14.4	18.6	19.2	21.3	45.4	42.6	7.6
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°	837.1	837.1	837.1	837.1	837.1	837.1	837.1	837.1	837.1	837.1	837.1
2.5°	838.4	833.6	816.5	802.0	789.7	782.1	773.2	767.7	764.9	762.8	763.5
5°	841.9	830.2	800.6	777.3	759.4	740.2	727.1	719.6	716.1	710.6	710.6
7.5°	861.1	842.6	801.3	765.6	734.7	708.6	683.8	674.9	668.7	667.3	665.9
10°	888.6	865.3	808.9	759.4	715.4	679.7	644.6	613.7	589.7	575.2	573.2
12.5°	923.0	889.3	820.6	755.3	698.9	635.7	542.9	480.4	438.5	425.4	427.5
15°	954.6	918.2	832.3	751.9	668.7	527.1	422.0	350.5	329.2	327.1	327.8
17.5°	992.4	949.1	846.0	747.0	585.5	402.7	313.4	294.1	298.3	305.1	304.5
20°	1031.6	982.1	862.5	718.2	467.3	303.1	277.0	279.0	285.2	291.4	292.8
22.5°	1073.5	1019.9	881.7	648.8	356.7	263.9	262.5	265.3	271.5	278.3	279.7
25°	1131.2	1067.3	896.2	558.0	270.1	244.0	246.7	251.5	257.0	264.6	266.0
27.5°	1205.4	1131.2	903.7	439.8	233.7	226.1	226.8	233.7	240.5	247.4	247.4
30°	1301.7	1207.5	888.6	332.6	215.8	208.9	206.2	210.3	219.2	226.1	226.8
32.5°	1387.6	1279.7	848.8	254.3	202.7	193.1	186.2	186.9	190.4	194.5	195.2
35°	1473.5	1349.8	780.7	213.7	189.0	178.0	167.7	162.2	159.4	157.4	159.4
37.5°	1583.4	1437.0	690.0	194.5	177.3	163.6	149.1	137.5	127.8	121.6	123.0
40°	1725.0	1558.0	582.8	182.1	166.3	149.8	130.6	115.5	99.0	93.5	90.7
42.5°	1958.7	1741.5	470.1	171.8	155.3	135.4	111.3	90.7	75.6	70.1	71.5
45°	2327.7	1973.1	362.2	160.8	144.3	119.6	93.5	71.5	59.1	56.4	57.7
47.5°	2817.0	2272.7	279.0	148.4	130.6	102.4	73.5	56.4	48.8	48.1	47.4
50°	3277.5	2551.8	233.0	134.7	114.1	85.2	60.5	47.4	42.6	41.9	41.9
52.5°	3694.0	2751.8	189.7	118.9	96.2	70.1	50.9	41.9	37.8	35.7	35.7
55°	4064.4	2882.3	153.9	99.7	75.6	55.7	44.0	37.8	33.0	30.2	29.6
57.5°	4344.1	2898.1	115.5	79.7	56.4	43.3	37.8	33.0	27.5	24.1	22.7
60°	4463.7	2761.4	85.2	60.5	41.9	34.4	30.2	26.8	20.6	17.2	16.5
62.5°	4343.4	2495.4	63.2	46.0	32.3	25.4	21.3	19.9	14.4	10.3	9.6
65°	3912.5	2111.2	50.2	35.0	24.1	18.6	13.7	13.1	8.9	4.8	4.1
67.5°	3134.6	1653.5	39.9	26.1	17.2	12.4	8.9	8.2	4.8	1.4	1.4
70°	2038.4	1057.0	32.3	19.2	11.0	8.2	5.5	4.1	2.7	0.7	0.0
72.5°	1008.2	494.1	26.1	15.1	7.6	4.1	2.1	1.4	2.1	0.0	0.0
75°	391.0	175.9	19.2	10.3	4.1	2.1	1.4	0.0	0.7	0.0	0.0
77.5°	129.9	58.4	11.7	5.5	2.7	1.4	0.0	0.0	0.0	0.0	0.0
80°	48.1	22.7	6.2	3.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	19.2	8.9	4.1	2.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.6	5.5	2.7	2.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.9	4.1	2.7	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)