

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: P648351

Luminaire Tested: **GALN-SA3B-835-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648351
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-SA3B-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 800mA 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: 9621.5 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

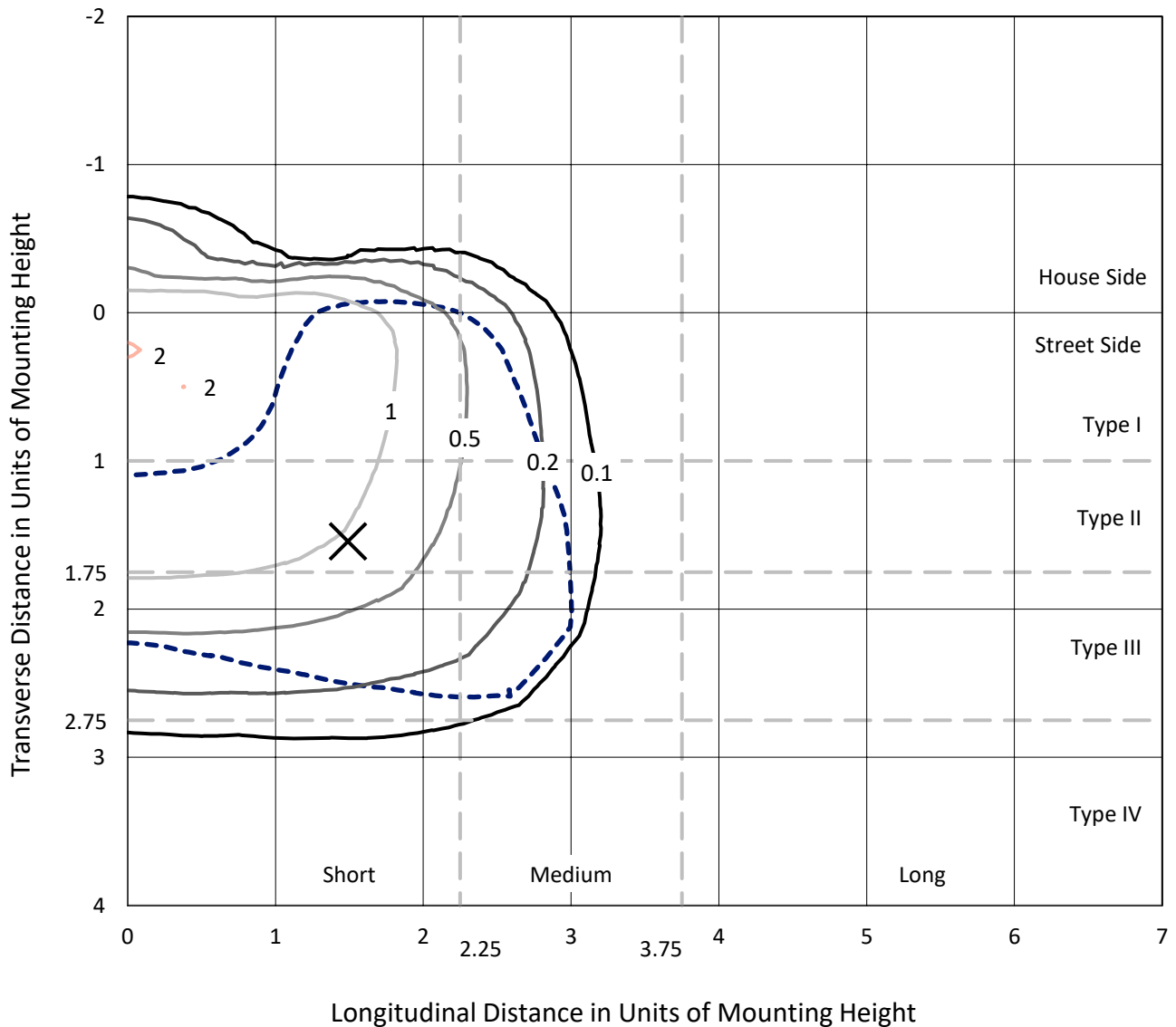
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

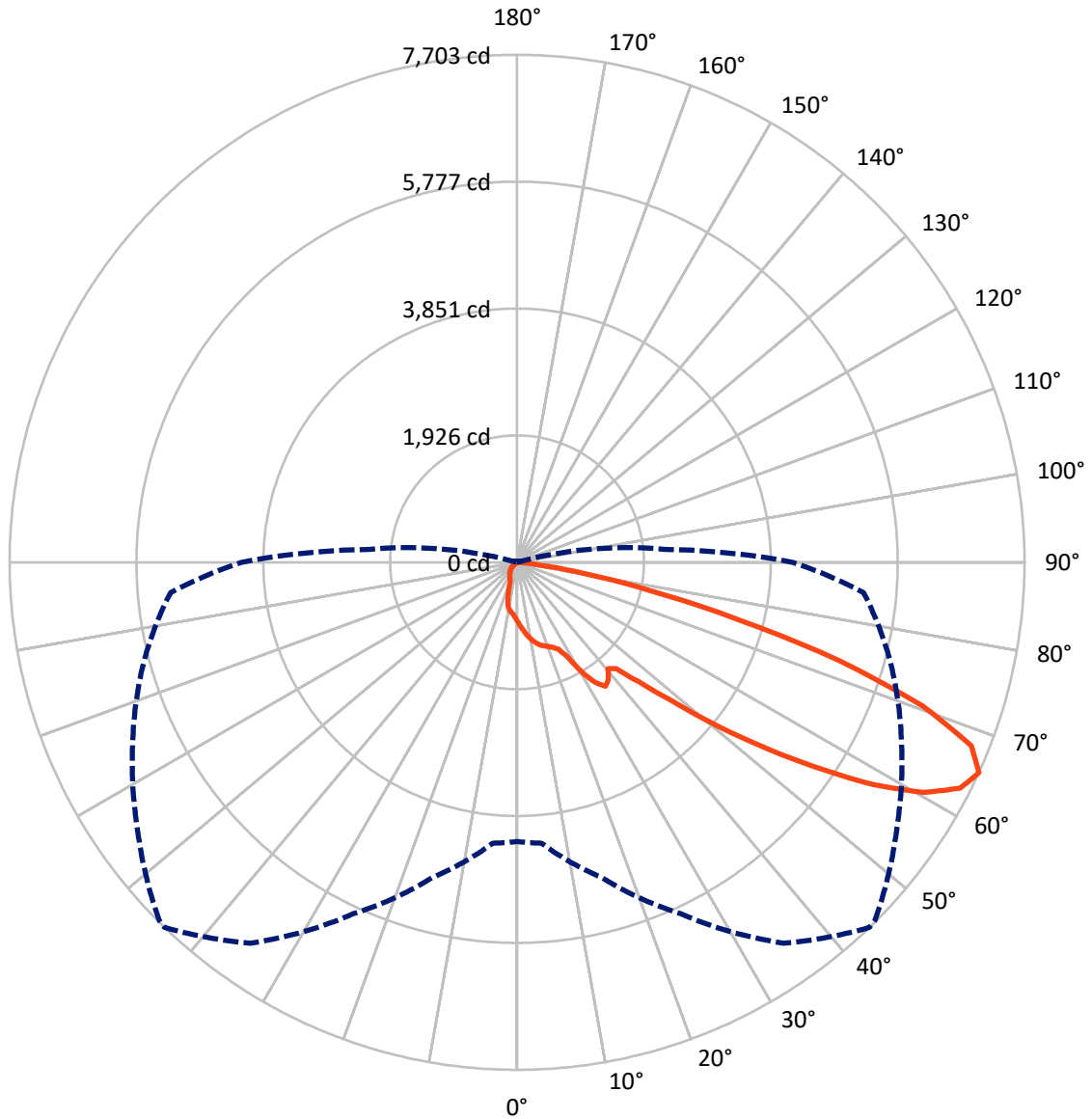
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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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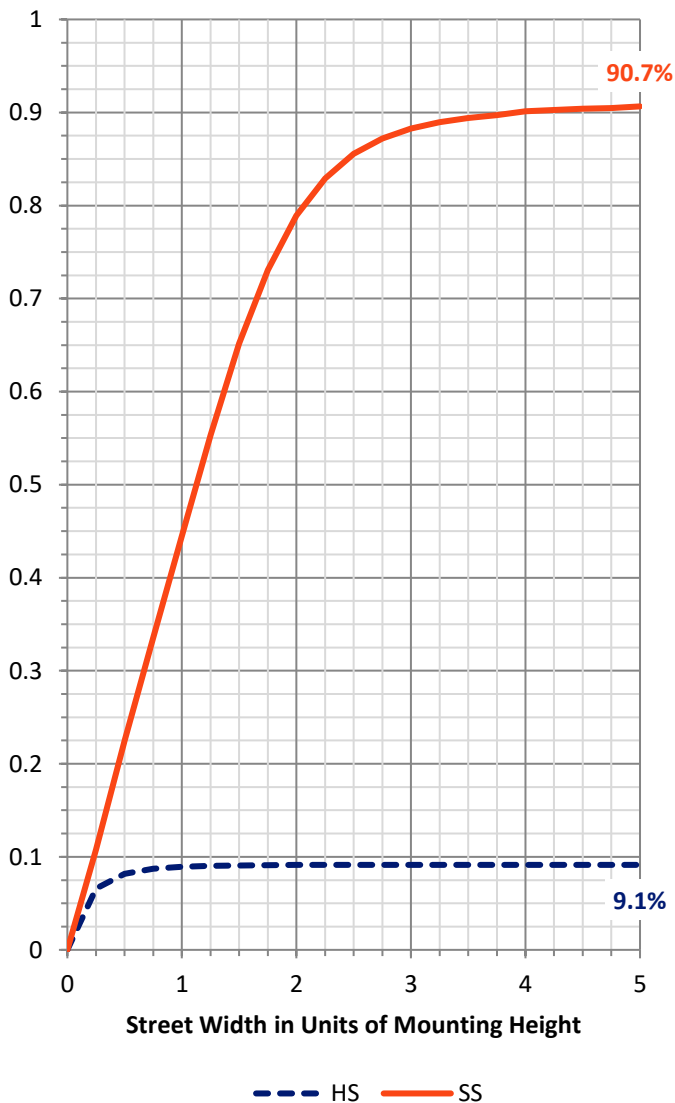
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	886.5	0.0	886.5
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	8735.0	0.0	8735.0
	% Fixture	90.8	0.0	90.8
Total	Lumens	9621.5	0.0	9621.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	0.9
10°-20°	268.1	2.8
20°-30°	454.5	4.7
30°-40°	755.7	7.9
40°-50°	1319.5	13.7
50°-60°	2577.9	26.8
60°-70°	2990.9	31.1
70°-80°	1089.1	11.3
80°-90°	76.7	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°	9621.5	100.0
0°-180°	9621.5	100.0

Coefficient of Utilization



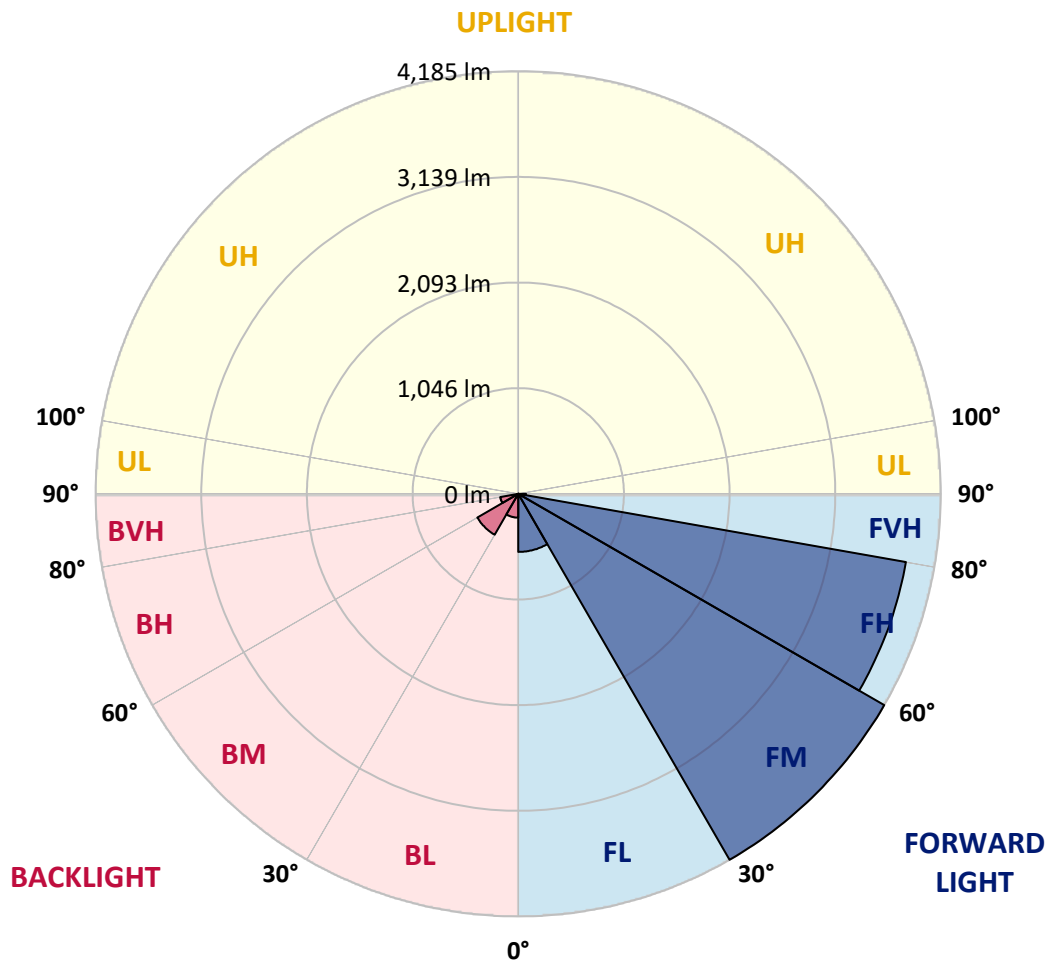
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	575.5	6.0			
FM (30°-60°)	4185.4	43.5			
FH (60°-80°)	3898.5	40.5			G2/5000
FVH (80°-90°)	75.7	0.8			G1/100
BL (0°-30°)	236.2	2.5	B1/500		
BM (30°-60°)	467.7	4.9	B1/1000		
BH (60°-80°)	181.5	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°	895.4	895.4	895.4	895.4	895.4	895.4	895.4	895.4	895.4	895.4	895.4
2.5°	1008.0	1003.6	1001.4	989.6	980.8	969.7	969.7	955.7	939.6	921.9	905.8
5°	1120.5	1113.1	1103.6	1093.2	1072.6	1043.3	1043.3	1013.8	980.0	949.9	916.8
7.5°	1228.5	1221.9	1205.7	1185.9	1152.0	1121.2	1119.0	1076.3	1035.9	990.3	943.3
10°	1323.3	1318.2	1304.2	1266.0	1230.7	1190.3	1189.5	1141.8	1094.7	1038.8	980.8
12.5°	1389.5	1390.3	1371.9	1335.1	1289.5	1251.3	1248.3	1201.4	1152.0	1091.7	1020.5
15°	1436.6	1436.6	1417.5	1376.3	1335.1	1301.3	1298.4	1257.2	1206.4	1141.1	1063.9
17.5°	1449.8	1454.3	1433.7	1396.9	1363.8	1334.4	1333.7	1299.1	1258.7	1195.4	1107.9
20°	1444.6	1449.1	1432.9	1404.2	1381.4	1364.5	1362.3	1348.3	1310.9	1251.3	1155.0
22.5°	1433.7	1438.1	1426.3	1409.4	1398.4	1403.5	1399.8	1411.6	1391.7	1319.7	1210.9
25°	1435.9	1440.3	1431.4	1421.8	1431.4	1463.0	1472.6	1523.3	1505.7	1406.4	1271.2
27.5°	1504.9	1513.8	1501.2	1505.7	1539.5	1613.1	1631.4	1718.9	1640.9	1516.7	1365.2
30°	1658.6	1652.8	1629.2	1650.6	1768.2	1924.0	1918.9	1904.9	1782.9	1643.9	1477.1
32.5°	1798.3	1793.1	1791.7	1883.6	2096.8	2172.5	2168.8	2033.5	1910.1	1789.5	1587.3
35°	1854.9	1835.0	1830.7	2053.4	2410.0	2310.0	2287.2	2086.5	2064.5	1948.3	1699.8
37.5°	2025.5	2011.5	1943.2	2081.4	2285.0	2251.9	2234.3	2177.7	2229.1	2088.7	1827.0
40°	2376.9	2338.0	2276.2	2140.9	2107.8	2121.8	2139.5	2294.6	2423.9	2280.6	1996.8
42.5°	2813.6	2804.8	2690.1	2437.9	2190.1	2209.3	2232.1	2538.6	2704.1	2569.5	2274.0
45°	3337.9	3350.3	3184.9	2887.2	2562.2	2578.3	2611.5	2898.9	3083.5	3018.7	2710.0
47.5°	3814.2	3804.7	3748.8	3439.2	3139.3	3103.3	3157.0	3361.3	3608.4	3618.6	3251.1
50°	4293.6	4344.3	4261.2	4140.0	3917.1	3841.4	3821.6	3921.6	4298.0	4248.7	3901.0
52.5°	4982.5	5008.9	4853.0	4822.2	4872.9	4627.4	4607.5	4631.8	4968.5	4799.4	4387.7
55°	5415.5	5400.0	5341.9	5583.1	5783.9	5477.2	5452.3	5354.5	5525.0	5188.3	4856.0
57.5°	5552.3	5574.3	5709.6	6145.5	6620.5	6360.2	6314.7	6036.8	5926.4	5550.8	5286.8
60°	5491.2	5531.7	5823.6	6472.0	7130.7	7091.8	7052.8	6586.0	6214.7	5853.7	5589.0
62.5°	5056.7	5113.3	5580.2	6413.9	7303.5	7546.9	7498.3	6928.5	6406.5	6000.7	5641.9
65°	4237.7	4279.6	4950.1	5886.8	7058.0	7702.7	7685.1	7035.9	6436.7	5866.2	5279.5
67.5°	3021.0	3163.6	3784.8	4961.2	6331.6	7436.5	7466.7	6907.2	6153.6	5284.6	4372.3
70°	1899.0	1996.1	2441.6	3551.8	5075.8	6524.2	6623.4	6318.3	5340.5	4119.4	2926.9
72.5°	905.8	977.8	1295.4	2248.2	3582.6	5133.2	5211.8	5186.8	4129.6	2595.3	1510.1
75°	403.6	430.8	618.3	1147.6	2313.0	3450.3	3653.9	3687.8	2580.5	1269.7	587.4
77.5°	205.9	206.6	289.6	555.8	1155.0	2058.6	2099.0	2217.4	1399.1	559.5	204.4
80°	109.5	116.9	153.6	262.5	599.2	1013.8	1008.7	1108.6	620.5	274.2	68.4
82.5°	49.3	54.4	86.8	137.5	292.6	384.5	414.7	453.6	266.1	175.0	30.1
85°	14.7	17.6	42.7	69.1	105.9	111.0	124.3	160.3	150.7	124.3	15.4
87.5°	2.2	2.2	17.6	19.1	15.4	19.9	20.6	22.8	48.5	45.6	8.1
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°	895.4	895.4	895.4	895.4	895.4	895.4	895.4	895.4	895.4	895.4	895.4
2.5°	896.9	891.8	873.4	858.0	844.8	836.6	827.1	821.2	818.3	816.0	816.8
5°	900.6	888.2	856.5	831.5	812.4	791.8	777.8	769.8	766.1	760.2	760.2
7.5°	921.2	901.4	857.2	819.0	785.9	758.0	731.6	722.0	715.3	713.9	712.4
10°	950.6	925.6	865.3	812.4	765.4	727.1	689.6	656.5	630.8	615.4	613.2
12.5°	987.4	951.3	877.8	808.0	747.7	680.0	580.8	513.9	469.1	455.1	457.3
15°	1021.2	982.2	890.3	804.3	715.3	563.9	451.4	375.0	352.2	349.9	350.7
17.5°	1061.7	1015.3	905.1	799.1	626.4	430.8	335.3	314.7	319.1	326.4	325.7
20°	1103.6	1050.6	922.7	768.3	499.9	324.2	296.3	298.5	305.1	311.7	313.2
22.5°	1148.3	1091.0	943.3	694.1	381.6	282.3	280.9	283.8	290.4	297.8	299.3
25°	1210.1	1141.8	958.7	597.0	288.9	261.0	263.9	269.1	275.0	283.1	284.5
27.5°	1289.5	1210.1	966.8	470.5	249.9	241.9	242.7	249.9	257.3	264.7	264.7
30°	1392.5	1291.7	950.6	355.9	230.8	223.5	220.6	225.0	234.5	241.9	242.7
32.5°	1484.3	1368.9	908.0	272.0	216.9	206.6	199.3	200.0	203.7	208.0	208.8
35°	1576.3	1443.9	835.2	228.6	202.2	190.4	179.4	173.5	170.5	168.3	170.5
37.5°	1693.9	1537.3	738.1	208.0	189.7	175.0	159.6	147.0	136.7	130.1	131.6
40°	1845.4	1666.7	623.4	194.8	177.9	160.3	139.7	123.5	105.9	100.0	97.0
42.5°	2095.3	1863.0	502.8	183.8	166.2	144.9	119.1	97.0	80.9	75.0	76.5
45°	2490.1	2110.7	387.4	172.0	154.4	127.9	100.0	76.5	63.3	60.3	61.8
47.5°	3013.6	2431.3	298.5	158.8	139.7	109.5	78.7	60.3	52.2	51.4	50.7
50°	3506.2	2729.8	249.2	144.1	122.1	91.1	64.7	50.7	45.6	44.9	44.9
52.5°	3951.7	2943.8	203.0	127.2	103.0	75.0	54.4	44.9	40.4	38.2	38.2
55°	4348.0	3083.5	164.7	106.6	80.9	59.6	47.1	40.4	35.3	32.3	31.6
57.5°	4647.2	3100.4	123.5	85.3	60.3	46.4	40.4	35.3	29.4	25.8	24.3
60°	4775.1	2954.0	91.1	64.7	44.9	36.7	32.3	28.7	22.1	18.4	17.6
62.5°	4646.5	2669.5	67.7	49.3	34.5	27.2	22.8	21.3	15.4	11.0	10.3
65°	4185.5	2258.6	53.6	37.5	25.8	19.9	14.7	13.9	9.6	5.2	4.4
67.5°	3353.3	1768.9	42.7	28.0	18.4	13.2	9.6	8.8	5.2	1.5	1.5
70°	2180.6	1130.7	34.5	20.6	11.7	8.8	5.9	4.4	3.0	0.7	0.0
72.5°	1078.5	528.6	28.0	16.2	8.1	4.4	2.2	1.5	2.2	0.0	0.0
75°	418.4	188.2	20.6	11.0	4.4	2.2	1.5	0.0	0.7	0.0	0.0
77.5°	139.0	62.5	12.5	5.9	3.0	1.5	0.0	0.0	0.0	0.0	0.0
80°	51.4	24.3	6.7	3.7	1.5	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	20.6	9.6	4.4	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.3	5.9	3.0	2.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.4	4.4	3.0	2.2	1.5	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)