

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: P458632

Luminaire Tested: **GALN-SA2A-735-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7019 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

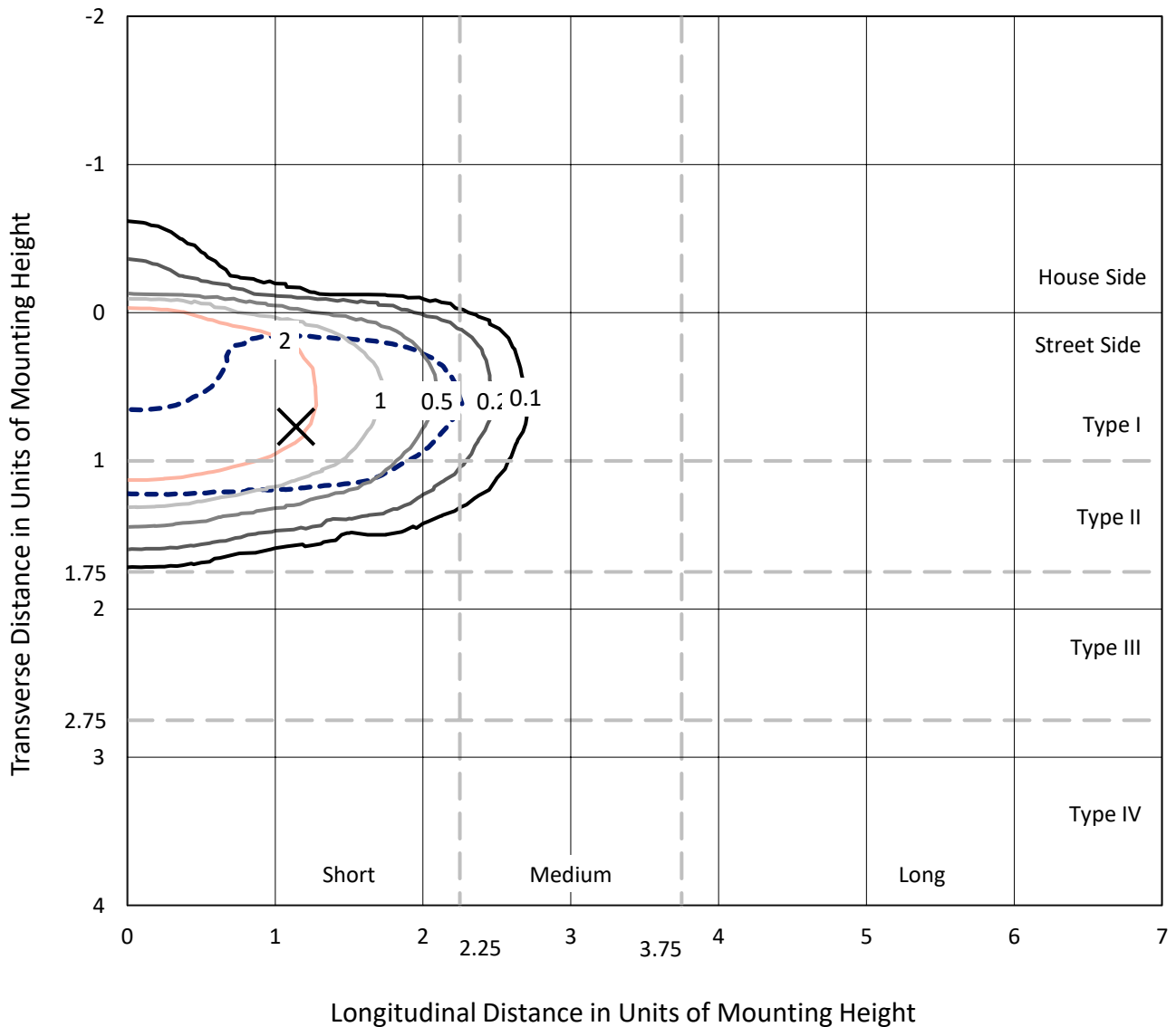
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

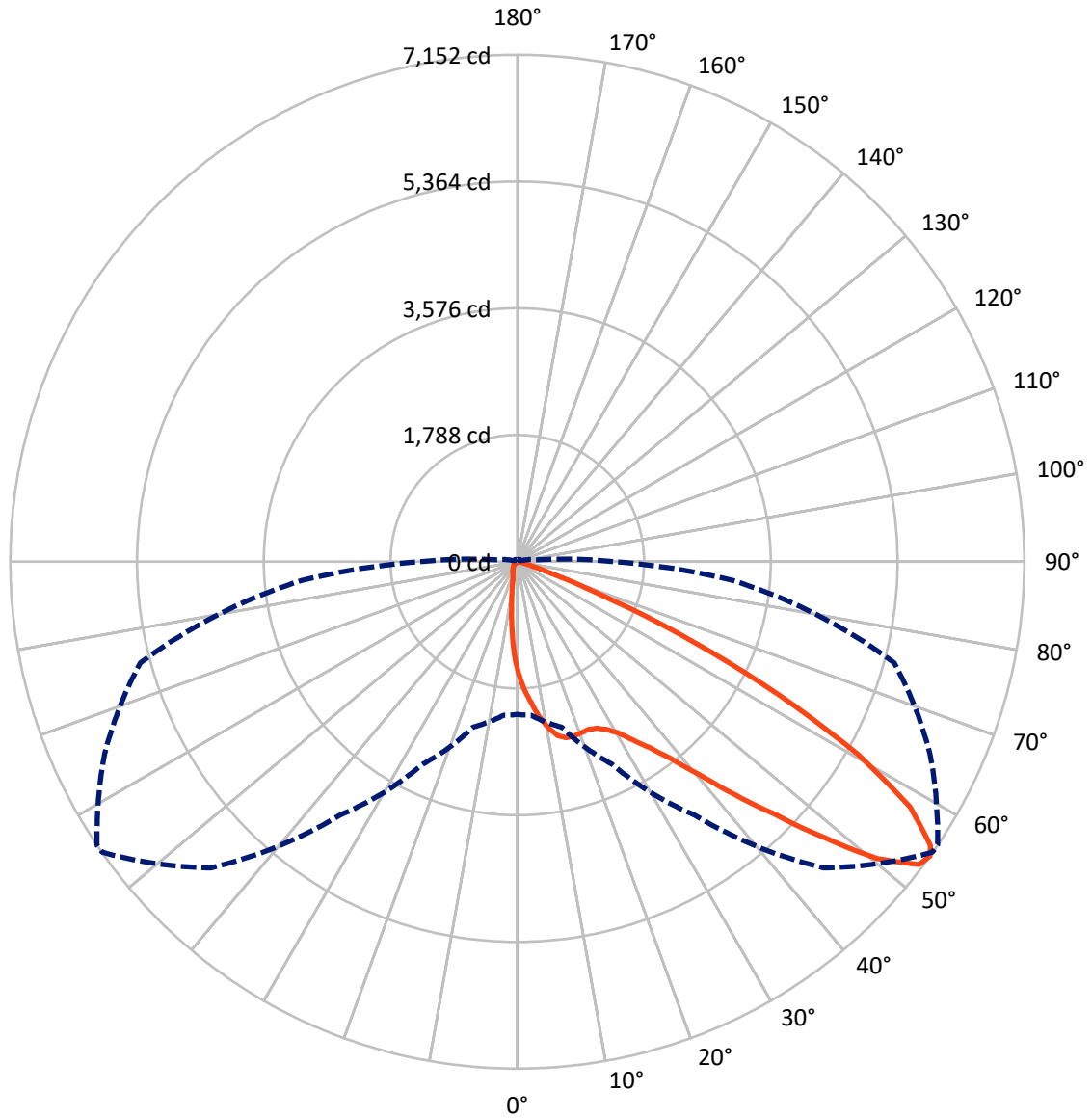
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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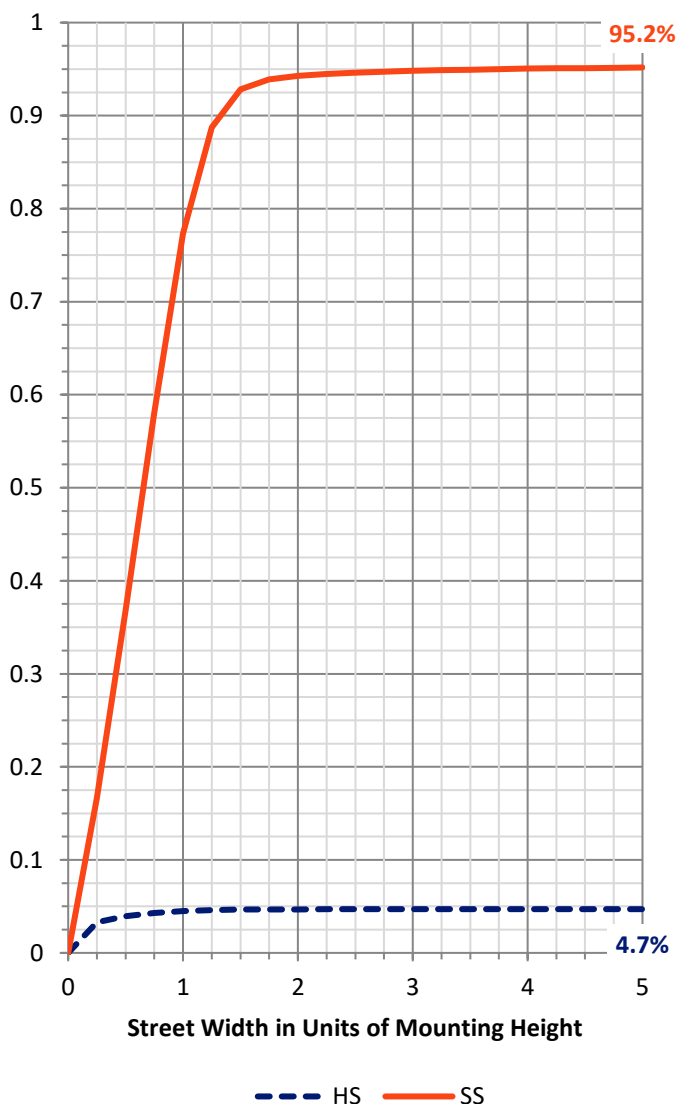
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	331.9	0.0	331.9
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	6687.1	0.0	6687.1
	% Fixture	95.3	0.0	95.3
Total	Lumens	7019.0	0.0	7019.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.8	2.0
10°-20°	372.5	5.3
20°-30°	645.2	9.2
30°-40°	1113.7	15.9
40°-50°	1895.5	27.0
50°-60°	1875.8	26.7
60°-70°	856.2	12.2
70°-80°	110.0	1.6
80°-90°	12.4	0.2
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°	7019.0	100.0
0°-180°	7019.0	100.0

Coefficient of Utilization



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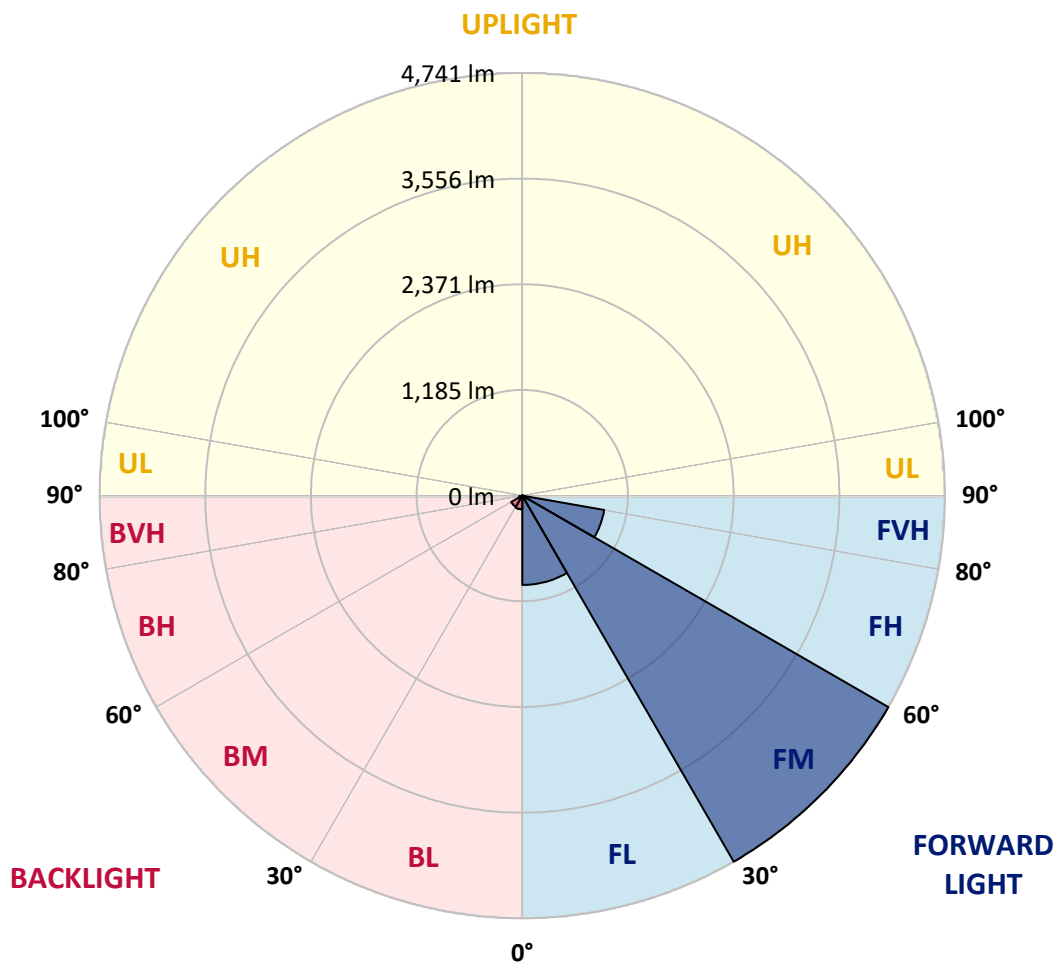
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1002.0	14.3			
FM	(30°-60°)	4741.2	67.5			
FH	(60°-80°)	932.9	13.3			G1/1800
FVH	(80°-90°)	11.1	0.2			G1/100
BL	(0°-30°)	153.5	2.2	B1/500		
BM	(30°-60°)	143.8	2.0	B0/220		
BH	(60°-80°)	33.2	0.5	B0/110		G0/110
BVH	(80°-90°)	1.3	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1559.4	1559.4	1559.4	1559.4	1559.4	1559.4	1559.4	1559.4	1559.4	1559.4	1559.4
2.5°	1981.8	1968.1	1949.2	1934.5	1899.9	1850.2	1797.6	1797.6	1746.9	1676.4	1604.4
5°	2285.9	2276.9	2258.4	2220.5	2181.7	2112.1	2006.5	1988.0	1897.5	1769.7	1635.2
7.5°	2409.5	2413.7	2414.7	2404.7	2386.2	2317.6	2212.9	2200.1	2055.7	1884.3	1675.4
10°	2291.1	2311.9	2332.3	2373.5	2431.7	2448.3	2389.1	2375.8	2233.8	2000.3	1719.0
12.5°	2114.9	2126.3	2137.6	2202.5	2319.5	2453.5	2515.5	2515.1	2394.8	2115.8	1774.4
15°	2033.0	2042.9	2043.9	2072.8	2174.1	2369.2	2569.5	2576.6	2552.0	2258.4	1834.1
17.5°	2050.0	2058.1	2051.4	2058.5	2111.6	2276.4	2563.4	2587.0	2679.4	2395.2	1888.1
20°	2161.3	2176.9	2151.4	2131.5	2147.6	2251.8	2542.5	2575.7	2769.4	2528.8	1937.3
22.5°	2361.2	2369.7	2337.5	2283.0	2254.6	2303.4	2536.8	2569.5	2846.1	2638.2	1965.7
25°	2583.2	2580.4	2544.9	2483.8	2424.1	2407.6	2574.3	2603.6	2909.5	2736.7	1974.3
27.5°	2805.3	2813.9	2754.2	2678.4	2606.9	2563.8	2658.1	2679.9	2981.0	2848.9	1984.7
30°	3063.4	3049.7	2991.0	2904.3	2822.4	2762.3	2793.0	2799.2	3079.5	2997.6	2012.1
32.5°	3399.2	3361.3	3295.5	3143.9	3085.2	2983.4	2991.0	2998.6	3199.3	3144.9	2045.3
35°	3854.7	3852.9	3724.0	3519.9	3376.9	3250.5	3217.3	3223.5	3380.7	3363.7	2118.7
37.5°	4403.1	4410.7	4263.9	4058.4	3795.1	3594.3	3526.1	3527.0	3656.3	3665.8	2230.4
40°	4849.7	4869.6	4782.0	4643.2	4383.2	4069.3	3954.7	3944.2	4043.7	4031.9	2390.0
42.5°	5042.0	5060.4	5093.1	5141.4	4998.4	4739.3	4468.9	4483.2	4513.5	4430.6	2569.0
45°	4947.7	4977.1	5105.4	5403.7	5538.2	5451.1	5128.6	5078.9	4950.6	4863.9	2749.0
47.5°	4555.1	4626.6	4841.2	5337.9	5808.6	6103.2	5873.0	5807.2	5388.1	5180.2	2863.6
50°	3909.7	3913.9	4212.8	4847.8	5668.5	6514.7	6633.1	6583.8	5795.9	5357.8	2921.4
52.5°	2834.2	2927.5	3201.2	3936.7	5061.4	6452.2	7117.5	7097.2	6216.4	5448.7	3004.7
54°	2154.7	2172.7	2416.1	3145.8	4363.8	6108.9	7147.4	7152.1	6425.2	5503.7	3054.0
55°	1766.4	1723.3	1979.0	2679.9	3887.9	5805.3	7049.8	7072.6	6519.0	5532.1	3090.4
57.5°	837.2	837.7	1033.3	1413.6	2435.0	4507.8	6453.6	6534.1	6529.4	5580.9	3202.7
60°	423.8	426.7	469.8	652.6	1202.8	2996.7	5336.0	5527.8	6026.9	5588.0	3239.6
62.5°	296.4	293.1	286.0	314.0	506.2	1523.0	3972.7	4139.4	5120.6	5317.6	3122.2
65°	253.8	246.7	226.8	222.6	255.7	606.6	2474.3	2746.2	3909.7	4604.4	2787.8
67.5°	216.9	214.0	196.1	185.2	180.9	264.2	1276.7	1419.7	2672.3	3309.7	2111.6
70°	184.2	182.8	171.9	158.2	146.3	158.2	473.6	586.7	1489.3	1782.0	996.4
72.5°	149.6	151.1	153.0	135.4	123.1	112.2	202.2	235.4	623.2	636.9	348.5
75°	131.2	129.8	129.8	117.9	102.8	83.3	111.3	119.8	190.8	177.1	81.0
77.5°	92.3	89.0	104.2	97.1	85.7	59.2	63.5	67.2	79.1	67.7	37.9
80°	63.9	63.9	66.8	87.1	77.2	43.1	38.8	41.7	46.9	40.3	21.8
82.5°	36.0	36.9	43.6	46.4	45.0	28.9	25.6	26.0	31.3	27.5	13.7
85°	4.3	7.1	25.1	24.6	18.5	12.8	14.2	14.7	19.4	17.0	8.1
87.5°	0.5	0.9	5.2	6.6	4.7	5.2	5.2	5.2	6.6	7.6	5.7
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°	1559.4	1559.4	1559.4	1559.4	1559.4	1559.4	1559.4	1559.4	1559.4	1559.4	1559.4
2.5°	1565.6	1529.6	1443.9	1344.4	1281.0	1177.7	1090.6	1027.6	1012.0	981.7	990.7
5°	1563.7	1488.9	1314.1	1129.4	932.4	785.6	676.2	590.1	552.2	527.1	509.5
7.5°	1564.6	1447.7	1167.3	873.2	637.9	493.9	392.6	340.0	305.0	290.3	292.2
10°	1567.5	1401.3	996.8	646.9	430.5	319.2	257.1	232.0	220.2	218.3	217.8
12.5°	1574.1	1350.6	833.9	480.2	301.2	232.0	208.4	199.8	196.1	196.1	194.6
15°	1581.2	1294.7	698.5	357.1	232.0	199.4	188.5	184.2	181.8	181.8	181.4
17.5°	1581.2	1230.3	572.1	277.0	199.8	183.3	174.7	169.1	167.2	167.2	166.7
20°	1571.3	1155.5	459.8	223.0	181.4	168.1	159.6	153.4	151.1	150.1	149.6
22.5°	1536.7	1055.6	366.1	191.8	166.2	154.9	144.0	136.9	135.0	134.0	134.5
25°	1475.1	942.9	289.8	168.6	152.5	138.8	129.3	124.1	122.2	122.2	122.7
27.5°	1411.7	824.9	229.7	151.1	135.9	123.6	116.0	112.7	112.2	113.7	114.1
30°	1352.9	706.5	186.1	136.9	121.2	110.8	105.6	104.7	104.7	105.1	105.6
32.5°	1287.6	602.8	155.8	124.5	109.4	100.4	97.6	97.6	98.5	98.5	99.4
35°	1246.4	513.8	136.9	112.7	100.4	92.8	90.9	91.4	92.8	94.7	95.7
37.5°	1224.1	442.8	124.5	103.2	91.9	86.7	84.8	85.7	89.0	92.3	92.8
40°	1226.0	389.3	114.6	95.2	85.2	79.6	78.1	81.0	84.3	87.6	88.1
42.5°	1246.9	349.5	105.1	85.7	79.6	71.5	71.0	73.9	75.3	78.6	79.1
45°	1271.5	320.6	95.2	75.8	69.1	62.0	62.5	64.9	66.8	72.0	72.9
47.5°	1279.1	300.7	83.8	64.4	56.8	54.5	54.9	56.4	60.1	64.9	65.4
50°	1287.6	288.4	72.9	54.5	48.3	47.8	48.3	49.2	51.6	53.5	53.0
52.5°	1324.1	287.9	63.9	47.4	41.2	42.1	42.6	42.1	40.3	37.4	36.5
54°	1358.2	289.3	59.7	44.0	37.9	39.3	38.8	36.5	31.7	28.9	27.5
55°	1385.6	290.8	57.3	41.7	36.0	36.5	36.9	32.2	26.0	23.2	22.3
57.5°	1439.6	287.4	51.6	36.5	31.7	29.8	29.4	21.3	14.2	12.3	11.4
60°	1412.6	259.5	46.9	31.3	27.0	24.2	19.9	11.8	7.1	5.2	5.2
62.5°	1306.5	220.2	41.7	25.6	22.3	18.5	10.4	6.6	3.3	1.9	1.4
65°	1168.7	185.2	37.4	20.4	17.5	11.8	5.7	4.3	1.4	0.0	0.0
67.5°	869.0	137.3	31.7	16.1	13.3	7.6	3.8	2.4	0.5	0.0	0.0
70°	402.5	83.8	27.0	12.3	9.5	5.7	2.8	1.4	0.0	0.0	0.0
72.5°	115.5	52.6	22.3	9.0	6.6	4.7	2.4	0.9	0.5	0.0	0.0
75°	40.3	42.1	16.6	6.6	5.2	3.3	1.9	0.9	0.5	0.0	0.0
77.5°	24.2	34.1	10.4	5.7	4.3	2.8	1.9	0.9	0.5	0.5	0.0
80°	13.7	22.7	6.6	4.7	3.8	2.4	1.4	0.9	0.5	0.5	0.0
82.5°	7.6	10.9	5.2	4.3	3.3	2.4	1.4	0.9	0.5	0.5	0.5
85°	6.2	5.7	4.3	3.8	2.8	1.9	1.4	0.5	0.0	0.0	0.0
87.5°	4.7	3.8	3.8	3.8	2.8	1.9	1.4	0.5	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)