

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: P534576

Luminaire Tested: **GALN-SA2A-AMB-U-SL4**

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-067-8)
Test Lab: INNOVATION CENTER
Issue Date: 6/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-AMB-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2211 lumens
Efficiency: N/A
Efficacy: 53.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

Input Watts (W): 41.1
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



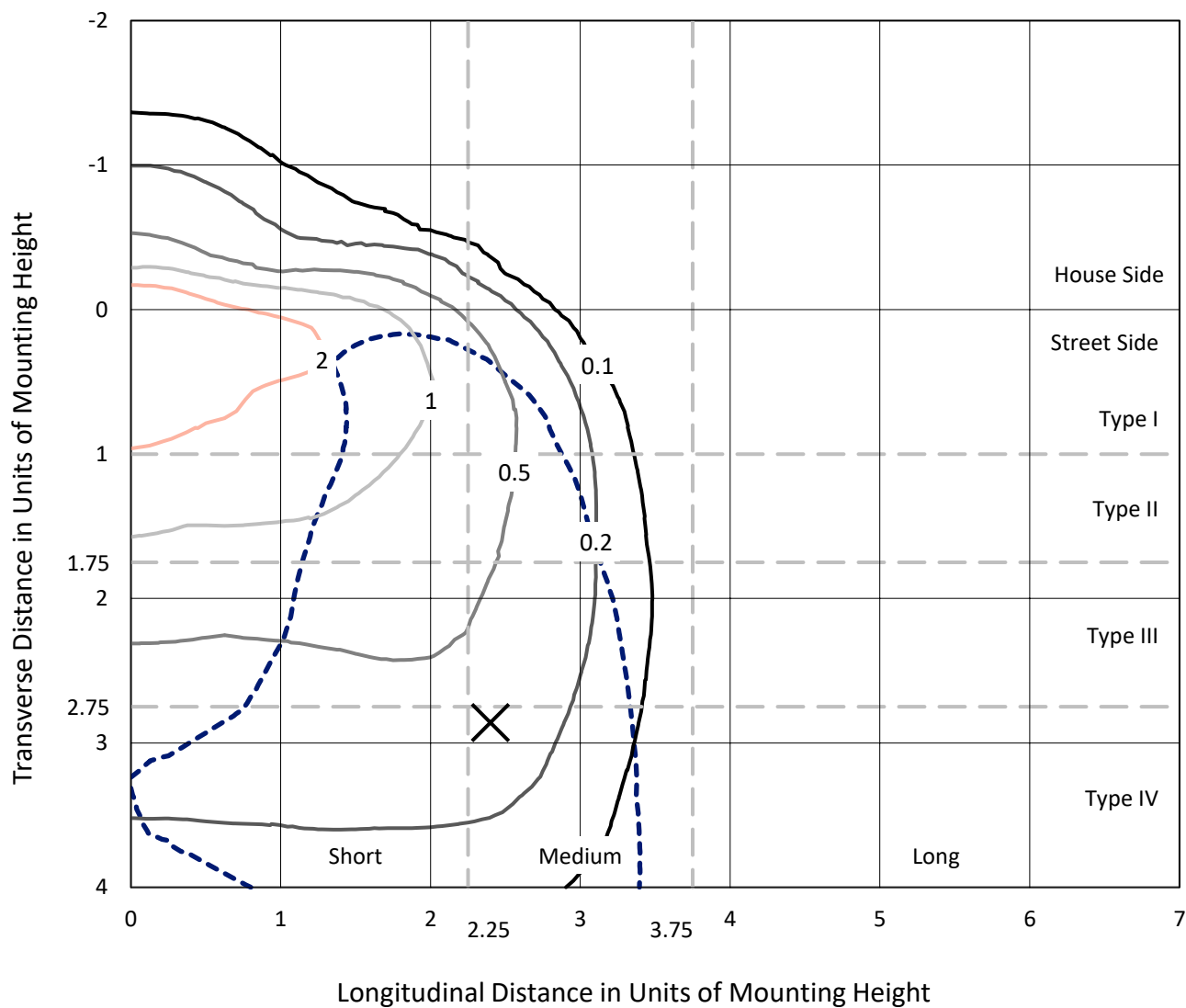
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

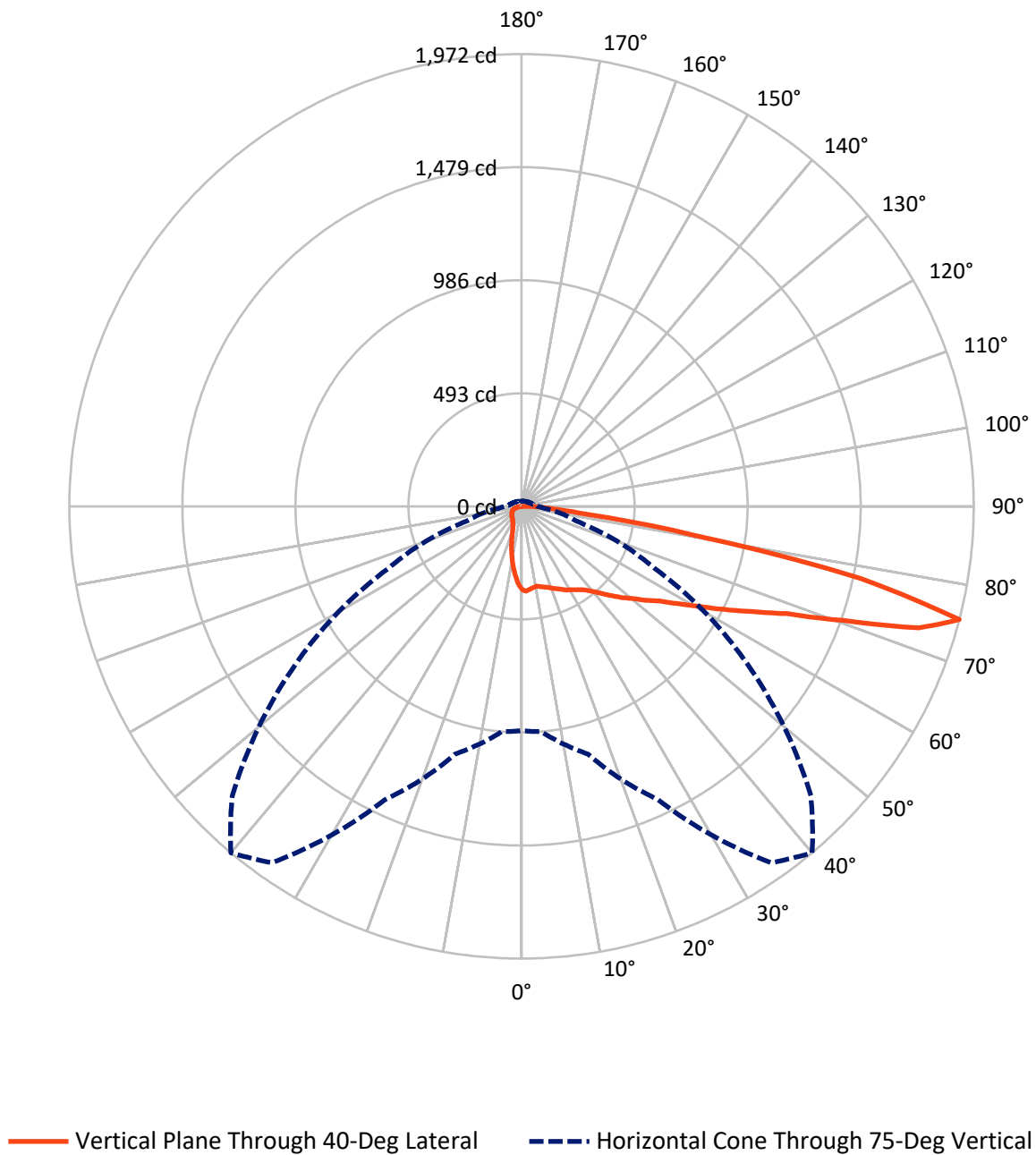


Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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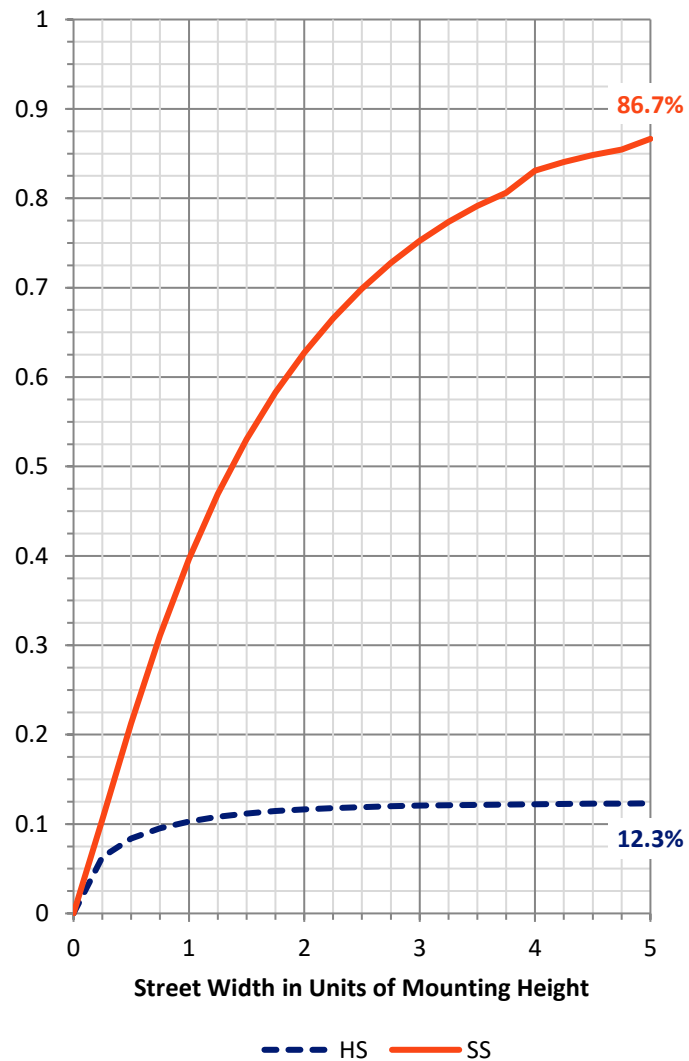
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	275.1	0.0	275.1
	% Fixture	12.4	0.0	12.4
Street Side	Lumens	1935.9	0.0	1935.9
	% Fixture	87.6	0.0	87.6
Total	Lumens	2211.0	0.0	2211.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.2	1.4
10°-20°	78.6	3.6
20°-30°	121.4	5.5
30°-40°	176.6	8.0
40°-50°	264.3	12.0
50°-60°	395.0	17.9
60°-70°	556.4	25.2
70°-80°	511.9	23.2
80°-90°	75.5	3.4
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°	2211.0	100.0
0°-180°	2211.0	100.0

Coefficient of Utilization



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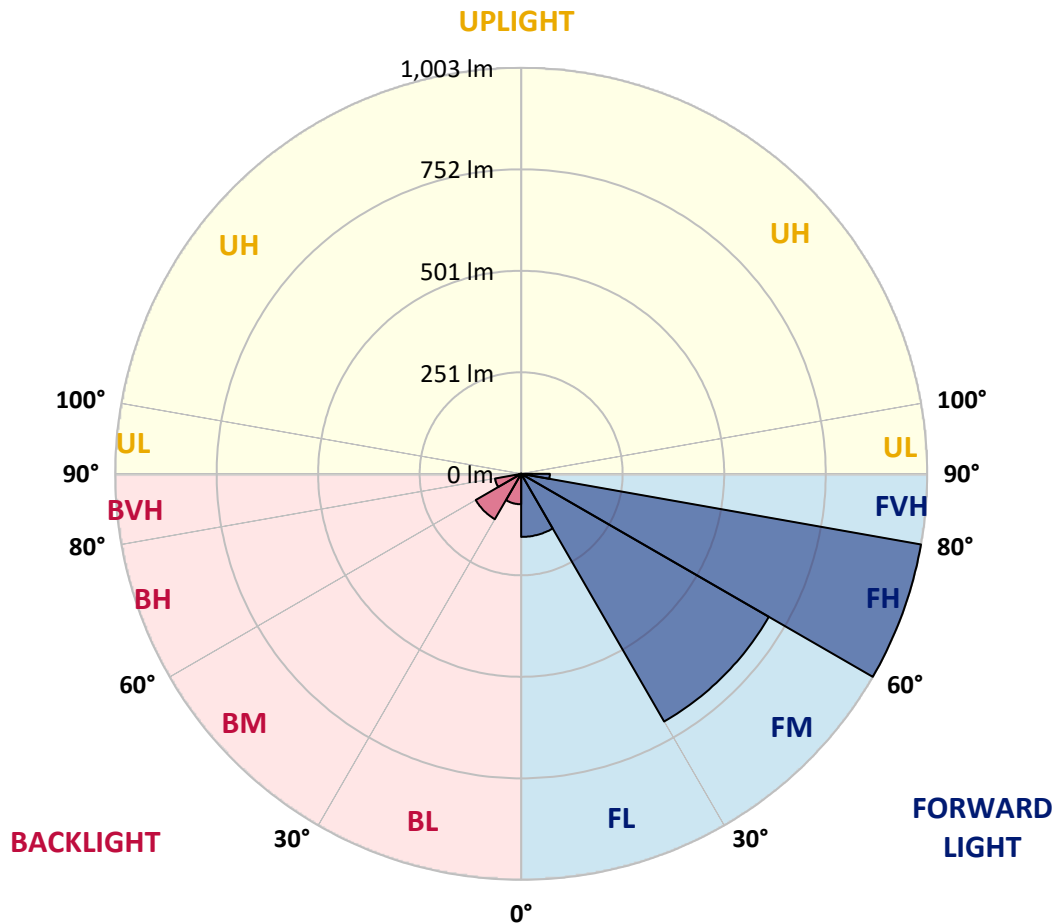
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	155.9	7.1			
FM	(30°-60°)	706.4	32.0			
FH	(60°-80°)	1002.8	45.4			G1/1800
FVH	(80°-90°)	70.8	3.2			G1/100
BL	(0°-30°)	75.3	3.4	B0/110		
BM	(30°-60°)	129.5	5.9	B0/220		
BH	(60°-80°)	65.6	3.0	B0/110		G0/110
BVH	(80°-90°)	4.7	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	363.0	363.0	363.0	363.0	363.0	363.0	363.0	363.0	363.0	363.0	363.0
2.5°	370.0	371.0	370.0	370.0	368.0	370.0	367.0	366.0	364.0	364.0	360.0
5°	365.0	367.0	365.0	365.0	364.0	364.0	361.0	360.0	357.0	357.0	352.0
7.5°	357.0	356.0	357.0	357.0	357.0	358.0	356.0	353.0	352.0	348.0	346.0
10°	349.0	351.0	350.0	353.0	354.0	354.0	354.0	352.0	350.0	345.0	342.0
12.5°	341.0	342.0	348.0	352.0	357.0	359.0	358.0	356.0	353.0	347.0	339.0
15°	343.0	340.0	346.0	355.0	362.0	365.0	361.0	361.0	354.0	347.0	339.0
17.5°	342.0	342.0	350.0	361.0	370.0	371.0	371.0	366.0	359.0	352.0	339.0
20°	347.0	347.0	357.0	369.0	379.0	381.0	380.0	370.0	362.0	354.0	346.0
22.5°	357.0	358.0	368.0	382.0	387.0	390.0	387.0	377.0	368.0	362.0	349.0
25°	373.0	372.0	380.0	394.0	402.0	400.0	400.0	384.0	374.0	370.0	359.0
27.5°	387.0	388.0	393.0	407.0	411.0	413.0	409.0	391.0	382.0	383.0	370.0
30°	406.0	408.0	411.0	418.0	421.0	422.0	422.0	404.0	394.0	400.0	382.0
32.5°	430.0	429.0	430.0	435.0	430.0	433.0	432.0	415.0	410.0	423.0	401.0
35°	456.0	456.0	453.0	450.0	442.0	446.0	446.0	430.0	432.0	453.0	421.0
37.5°	483.0	479.0	474.0	465.0	459.0	464.0	467.0	453.0	462.0	493.0	458.0
40°	508.0	500.0	490.0	485.0	481.0	489.0	493.0	485.0	498.0	545.0	507.0
42.5°	523.0	522.0	510.0	504.0	508.0	521.0	523.0	519.0	545.0	605.1	562.0
45°	542.0	537.0	526.0	523.0	540.0	557.0	563.0	558.0	598.1	680.1	620.1
47.5°	554.0	549.0	540.0	547.0	572.1	595.1	608.1	608.1	660.1	759.1	683.1
50°	566.0	559.0	554.0	577.1	603.1	632.1	650.1	662.1	727.1	839.1	756.1
52.5°	587.1	575.1	570.1	610.1	642.1	680.1	710.1	722.1	805.1	927.1	826.1
55°	615.1	607.1	592.1	646.1	688.1	728.1	766.1	799.1	881.1	1007.1	884.1
57.5°	645.1	636.1	624.1	691.1	753.1	800.1	838.1	886.1	970.1	1095.1	937.1
60°	684.1	675.1	666.1	744.1	831.1	883.1	931.1	984.1	1065.1	1166.1	981.1
62.5°	722.1	714.1	713.1	802.1	921.1	989.1	1028.1	1087.1	1153.1	1224.1	1001.1
65°	769.1	765.1	763.1	873.1	1037.1	1106.1	1148.1	1210.1	1255.1	1273.1	974.1
67.5°	813.1	818.1	835.1	960.1	1163.1	1248.1	1312.1	1378.1	1363.1	1277.1	834.1
70°	896.1	898.1	938.1	1088.1	1362.1	1490.1	1564.1	1555.1	1377.1	1107.1	568.0
72.5°	984.1	999.1	1073.1	1282.1	1668.1	1812.2	1834.2	1579.1	1163.1	702.1	244.0
75°	978.1	986.1	1118.1	1412.1	1897.2	1972.2	1784.2	1205.1	641.1	245.0	101.0
77.5°	780.1	802.1	945.1	1248.1	1622.1	1513.1	1158.1	599.1	205.0	90.0	61.0
80°	366.0	408.0	495.0	651.1	874.1	764.1	495.0	244.0	103.0	58.0	43.0
82.5°	171.0	178.0	198.0	216.0	292.0	284.0	205.0	192.0	79.0	35.0	21.0
85°	117.0	127.0	141.0	124.0	134.0	133.0	142.0	190.0	55.0	20.0	13.0
87.5°	80.0	85.0	95.0	73.0	81.0	75.0	89.0	164.0	18.0	8.0	4.0
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°	363.0	363.0	363.0	363.0	363.0	363.0	363.0	363.0	363.0	363.0	363.0
2.5°	358.0	356.0	350.0	349.0	348.0	342.0	341.0	338.0	336.0	335.0	336.0
5°	350.0	347.0	340.0	334.0	323.0	313.0	306.0	299.0	294.0	295.0	295.0
7.5°	343.0	340.0	329.0	318.0	299.0	285.0	268.0	255.0	247.0	241.0	243.0
10°	338.0	333.0	319.0	299.0	275.0	251.0	232.0	211.0	198.0	193.0	193.0
12.5°	336.0	330.0	307.0	280.0	249.0	220.0	192.0	170.0	154.0	150.0	148.0
15°	334.0	323.0	294.0	259.0	221.0	188.0	158.0	137.0	119.0	112.0	113.0
17.5°	333.0	320.0	282.0	240.0	196.0	157.0	129.0	107.0	97.0	92.0	92.0
20°	334.0	317.0	272.0	217.0	168.0	130.0	104.0	91.0	85.0	82.0	83.0
22.5°	337.0	313.0	255.0	195.0	145.0	109.0	91.0	84.0	80.0	78.0	78.0
25°	341.0	313.0	244.0	171.0	124.0	96.0	83.0	79.0	76.0	76.0	74.0
27.5°	349.0	314.0	229.0	151.0	107.0	86.0	79.0	75.0	73.0	73.0	73.0
30°	353.0	313.0	215.0	133.0	94.0	80.0	74.0	73.0	72.0	70.0	70.0
32.5°	363.0	312.0	199.0	117.0	85.0	75.0	71.0	70.0	69.0	68.0	68.0
35°	380.0	316.0	179.0	104.0	78.0	71.0	68.0	67.0	66.0	66.0	65.0
37.5°	401.0	322.0	165.0	93.0	73.0	67.0	65.0	64.0	64.0	64.0	64.0
40°	434.0	335.0	153.0	86.0	69.0	64.0	62.0	62.0	62.0	61.0	61.0
42.5°	471.0	351.0	143.0	81.0	67.0	62.0	60.0	59.0	59.0	59.0	59.0
45°	515.0	368.0	134.0	77.0	66.0	61.0	59.0	57.0	57.0	57.0	56.0
47.5°	562.0	388.0	127.0	75.0	64.0	60.0	57.0	56.0	55.0	54.0	54.0
50°	613.1	411.0	124.0	74.0	63.0	58.0	55.0	54.0	53.0	51.0	51.0
52.5°	661.1	434.0	126.0	73.0	62.0	56.0	53.0	53.0	51.0	49.0	50.0
55°	700.1	456.0	128.0	73.0	61.0	53.0	51.0	51.0	49.0	47.0	47.0
57.5°	735.1	472.0	129.0	74.0	61.0	51.0	48.0	49.0	47.0	46.0	46.0
60°	761.1	478.0	129.0	76.0	61.0	49.0	45.0	47.0	46.0	44.0	45.0
62.5°	759.1	454.0	120.0	77.0	61.0	48.0	43.0	45.0	47.0	45.0	45.0
65°	691.1	362.0	104.0	72.0	60.0	47.0	40.0	43.0	46.0	45.0	45.0
67.5°	523.0	240.0	84.0	65.0	55.0	45.0	38.0	38.0	41.0	40.0	41.0
70°	306.0	130.0	69.0	56.0	48.0	41.0	35.0	33.0	33.0	33.0	33.0
72.5°	126.0	76.0	56.0	47.0	41.0	35.0	31.0	28.0	27.0	27.0	27.0
75°	70.0	56.0	46.0	38.0	33.0	29.0	27.0	24.0	23.0	23.0	23.0
77.5°	51.0	46.0	37.0	29.0	25.0	23.0	21.0	20.0	19.0	19.0	19.0
80°	39.0	36.0	28.0	22.0	19.0	16.0	16.0	15.0	15.0	15.0	15.0
82.5°	23.0	27.0	20.0	15.0	14.0	12.0	11.0	11.0	11.0	10.0	10.0
85°	15.0	20.0	12.0	9.0	7.0	6.0	7.0	6.0	6.0	5.0	5.0
87.5°	3.0	6.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	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)