

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: P529047

Luminaire Tested: **GALN-SA4A-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-830-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9508 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

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



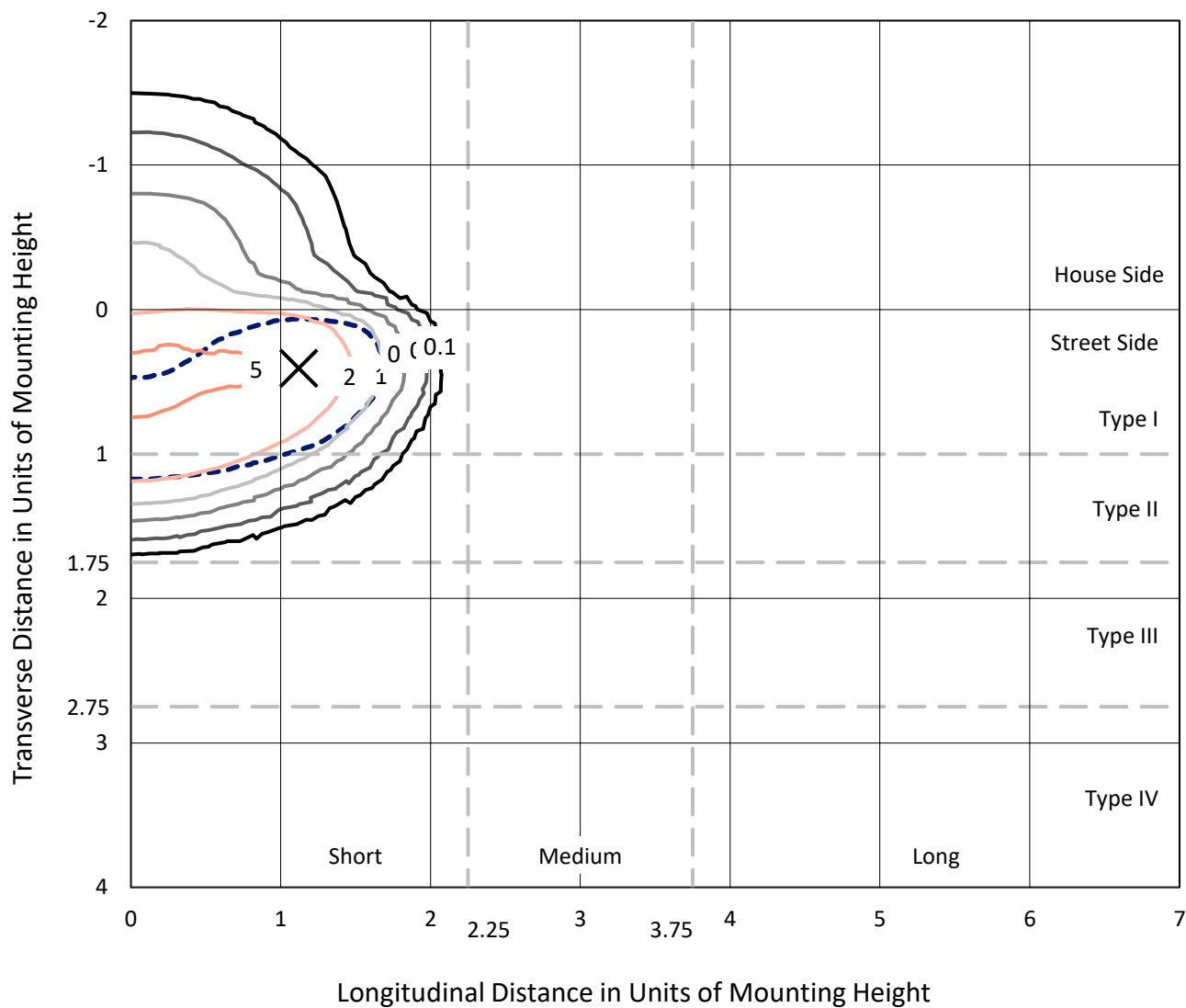
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

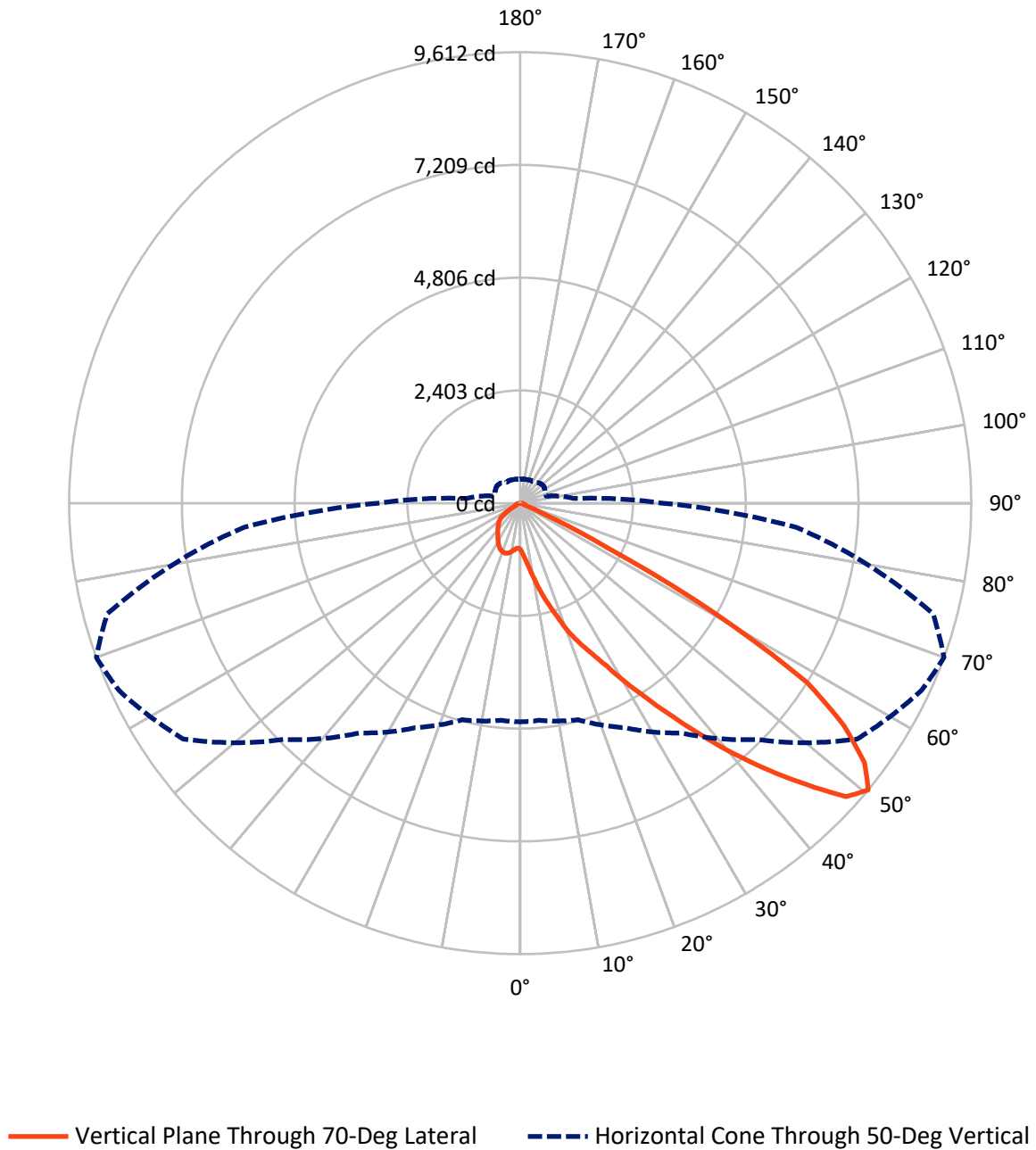


Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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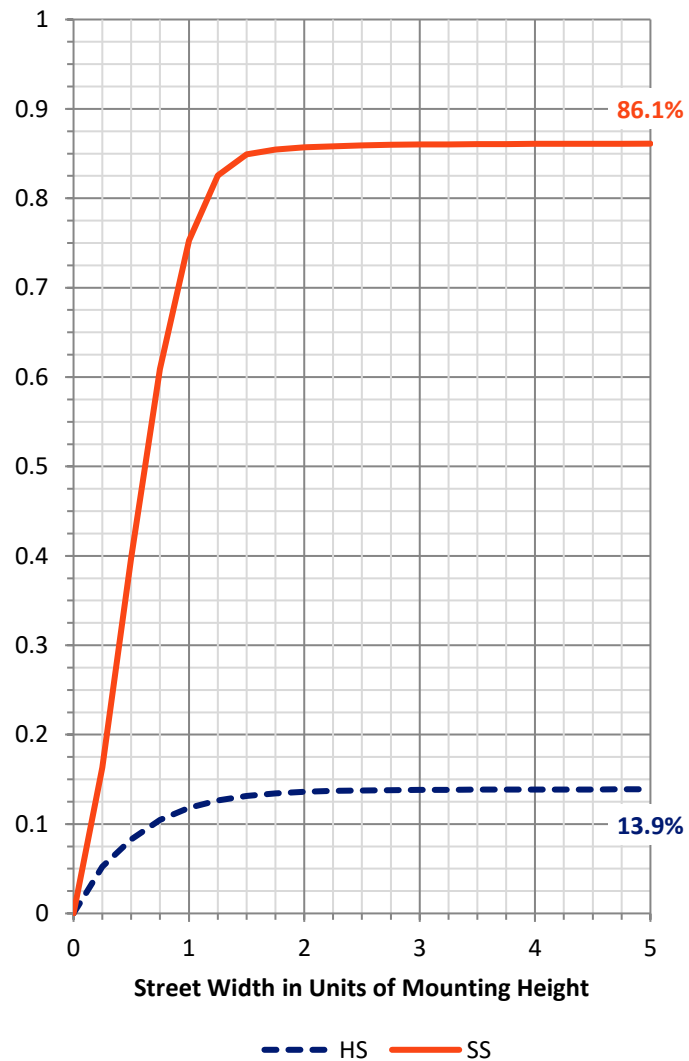
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1327.9	0.0	1327.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	8180.1	0.0	8180.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	9508.0	0.0	9508.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.1	1.3
10°-20°	554.0	5.8
20°-30°	1162.1	12.2
30°-40°	2003.1	21.1
40°-50°	2927.5	30.8
50°-60°	2280.1	24.0
60°-70°	386.3	4.1
70°-80°	53.1	0.6
80°-90°	13.7	0.1
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°	9508.0	100.0
0°-180°	9508.0	100.0

Coefficient of Utilization



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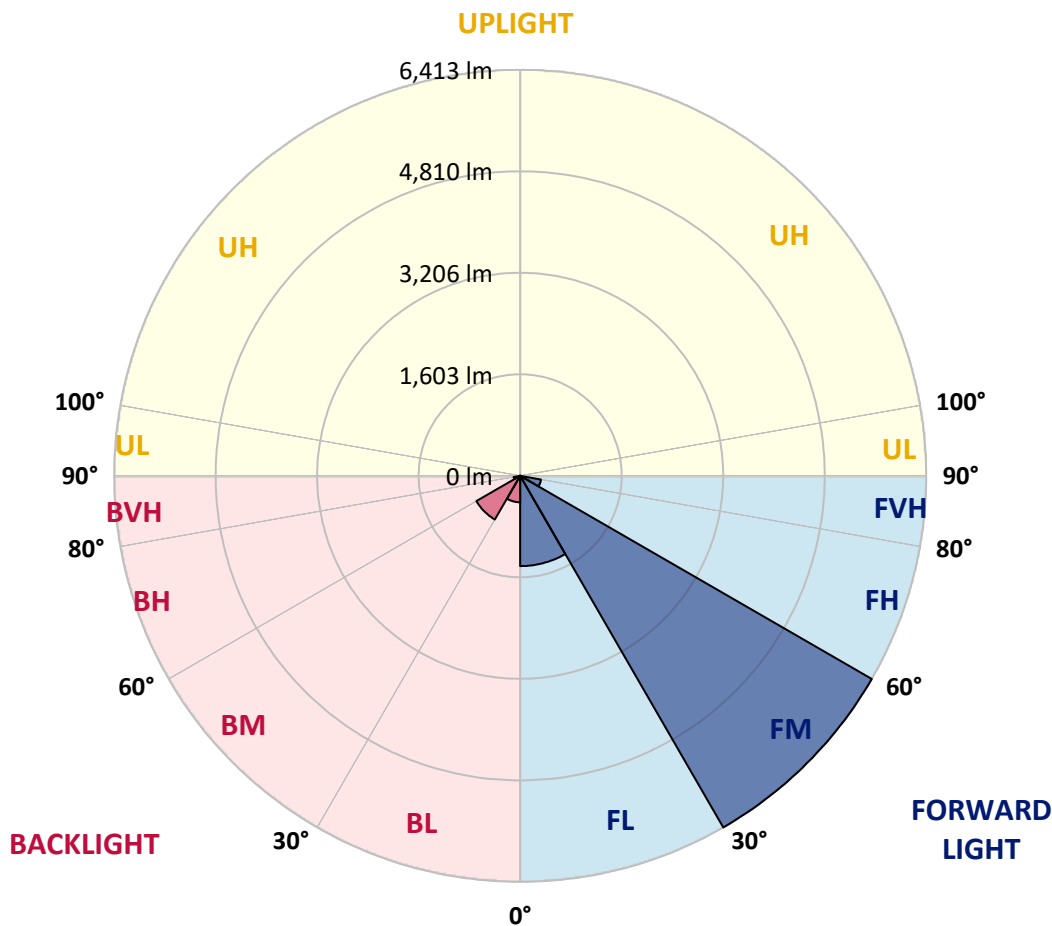
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1426.3	15.0			
FM	(30°-60°)	6413.0	67.4			
FH	(60°-80°)	334.5	3.5			G0/660
FVH	(80°-90°)	6.4	0.1			G0/10
BL	(0°-30°)	417.8	4.4	B1/500		
BM	(30°-60°)	797.7	8.4	B1/1000		
BH	(60°-80°)	104.9	1.1	B0/110		G0/110
BVH	(80°-90°)	7.4	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	984.8	984.8	984.8	984.8	984.8	984.8	984.8	984.8	984.8	984.8	984.8
2.5°	1289.7	1280.3	1260.0	1222.5	1206.8	1169.3	1147.4	1105.2	1078.6	1048.9	1016.1
5°	1816.5	1768.0	1738.3	1696.1	1572.6	1496.0	1369.4	1261.5	1211.5	1156.8	1081.8
7.5°	2360.5	2329.2	2288.6	2197.9	2113.5	1954.1	1736.8	1499.1	1397.5	1303.7	1155.2
10°	2810.7	2723.2	2718.5	2651.3	2559.0	2368.3	2107.2	1811.8	1630.5	1492.9	1260.0
12.5°	3124.9	3045.2	3081.1	3073.3	2987.4	2812.3	2510.6	2119.8	1930.6	1716.4	1367.8
15°	3411.0	3378.2	3367.2	3357.8	3323.4	3193.7	2923.3	2494.9	2221.4	1963.4	1489.8
17.5°	3690.8	3606.4	3647.0	3654.9	3651.7	3534.5	3281.2	2851.4	2529.3	2224.5	1618.0
20°	3939.4	3947.2	3892.5	3881.5	3872.1	3867.5	3620.5	3204.6	2907.6	2498.1	1785.2
22.5°	4258.3	4203.6	4252.0	4220.7	4159.8	4122.3	3933.1	3517.3	3235.9	2827.9	1955.6
25°	4635.0	4678.8	4564.7	4552.2	4484.9	4355.2	4184.8	3867.5	3551.7	3134.3	2140.1
27.5°	5099.3	5022.7	4993.0	4924.2	4802.3	4747.6	4547.5	4228.6	3933.1	3456.3	2318.3
30°	5497.9	5477.6	5329.1	5247.8	5141.5	5139.9	4860.1	4717.9	4430.2	3961.3	2563.7
32.5°	5823.1	5734.0	5679.3	5623.0	5537.0	5560.4	5324.4	5249.4	4960.2	4430.2	2852.9
35°	6040.4	5976.3	5943.4	5857.5	5832.5	5937.2	5838.7	5807.4	5569.8	5089.9	3192.1
37.5°	6109.1	6129.5	6123.2	6015.3	6068.5	6351.4	6478.1	6396.8	6271.7	5785.6	3559.5
40°	6170.1	6184.2	6152.9	6279.5	6431.2	6753.2	7211.2	7076.8	7029.9	6490.6	4070.7
42.5°	6204.5	6193.6	6193.6	6412.4	6642.2	7289.4	7919.4	7830.3	7794.3	7240.9	4661.6
45°	6056.0	5949.7	6063.8	6360.8	6823.5	7553.6	8485.3	8608.8	8557.2	8133.5	5352.5
47.5°	5501.0	5566.7	5630.8	6027.9	6603.1	7472.3	8832.3	9252.8	9348.2	8883.9	5805.9
50°	4661.6	4647.5	4780.4	5280.6	5979.4	7122.1	8765.1	9438.8	9612.4	9109.0	5901.2
52.5°	3390.7	3493.8	3637.7	4134.8	4963.3	6215.4	7897.5	8958.9	9190.3	8832.3	5838.7
55°	1974.4	1860.3	2183.8	2604.4	3386.0	4688.2	6676.6	7941.3	8369.6	8328.9	5522.9
57.5°	791.0	766.0	877.0	1181.8	1766.5	2906.1	4855.4	6525.0	7211.2	7628.6	4853.9
60°	347.0	339.2	398.6	481.5	722.2	1339.7	2655.9	4058.2	4774.1	5330.7	3340.6
62.5°	250.1	247.0	276.7	306.4	381.4	583.1	1116.2	1635.1	2038.5	2462.1	1496.0
65°	201.7	209.5	229.8	245.4	281.4	323.6	393.9	454.9	558.1	578.4	329.8
67.5°	164.1	170.4	189.2	206.3	212.6	175.1	181.3	159.5	159.5	142.3	114.1
70°	120.4	121.9	143.8	164.1	131.3	70.3	123.5	123.5	111.0	106.3	96.9
72.5°	89.1	90.7	107.9	101.6	51.6	43.8	90.7	100.0	90.7	86.0	78.2
75°	65.7	67.2	56.3	23.4	21.9	28.1	53.2	68.8	65.7	64.1	59.4
77.5°	12.5	9.4	7.8	10.9	15.6	23.4	34.4	42.2	43.8	46.9	43.8
80°	1.6	1.6	4.7	9.4	17.2	25.0	36.0	40.6	42.2	43.8	40.6
82.5°	0.0	1.6	4.7	9.4	17.2	23.4	31.3	36.0	39.1	40.6	39.1
85°	0.0	1.6	3.1	7.8	14.1	17.2	15.6	10.9	9.4	10.9	7.8
87.5°	0.0	0.0	1.6	1.6	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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°	984.8	984.8	984.8	984.8	984.8	984.8	984.8	984.8	984.8	984.8	984.8
2.5°	997.3	991.1	969.2	945.8	925.4	934.8	925.4	917.6	920.7	917.6	914.5
5°	1052.1	1023.9	977.0	956.7	939.5	937.9	933.3	931.7	933.3	933.3	919.2
7.5°	1103.6	1058.3	1008.3	986.4	966.1	967.6	956.7	956.7	955.1	947.3	944.2
10°	1181.8	1120.8	1056.8	1017.7	992.7	988.0	977.0	966.1	966.1	966.1	950.5
12.5°	1267.8	1191.2	1103.6	1058.3	1028.6	1005.2	988.0	984.8	967.6	964.5	956.7
15°	1342.8	1245.9	1134.9	1072.4	1034.9	1003.6	977.0	959.8	952.0	947.3	941.1
17.5°	1416.3	1292.8	1152.1	1072.4	1031.7	995.8	967.6	952.0	933.3	936.4	923.9
20°	1514.8	1342.8	1156.8	1052.1	1002.0	967.6	930.1	922.3	911.4	902.0	905.1
22.5°	1610.1	1378.8	1142.7	1027.0	955.1	914.5	895.7	886.4	881.7	873.9	862.9
25°	1696.1	1417.9	1120.8	981.7	905.1	875.4	858.2	856.7	845.7	845.7	825.4
27.5°	1783.7	1431.9	1083.3	928.6	861.3	844.1	836.3	833.2	828.5	817.6	803.5
30°	1883.7	1436.6	1028.6	873.9	822.3	803.5	814.4	822.3	801.9	781.6	787.9
32.5°	1966.6	1425.7	963.0	822.3	794.1	784.7	806.6	814.4	791.0	769.1	758.2
35°	2066.6	1399.1	898.9	781.6	766.0	784.7	803.5	803.5	756.6	730.0	723.8
37.5°	2218.2	1369.4	839.5	747.2	736.3	775.4	800.4	783.2	709.7	676.9	669.1
40°	2380.8	1350.6	781.6	712.8	720.7	759.7	773.8	720.7	645.6	625.3	619.0
42.5°	2616.9	1313.1	730.0	683.1	706.6	737.8	737.8	642.5	614.4	603.4	601.8
45°	2910.8	1286.5	684.7	658.1	686.3	694.1	669.1	601.8	581.5	578.4	580.0
47.5°	3054.6	1235.0	637.8	628.4	648.7	650.3	584.7	569.0	551.8	547.1	544.0
50°	3032.7	1142.7	576.8	589.3	617.5	601.8	533.1	536.2	520.6	519.0	511.2
52.5°	2879.5	997.3	515.9	545.6	576.8	531.5	490.9	487.7	487.7	467.4	459.6
55°	2552.8	803.5	442.4	479.9	517.4	447.1	436.1	433.0	425.2	406.4	401.8
57.5°	2021.3	589.3	333.0	373.6	439.3	379.9	378.3	364.2	343.9	329.8	329.8
60°	1202.1	339.2	209.5	228.2	290.8	308.0	342.3	336.1	301.7	279.8	273.6
62.5°	548.7	175.1	132.9	136.0	156.3	200.1	268.9	311.1	262.6	225.1	222.0
65°	184.5	129.7	109.4	104.7	107.9	120.4	161.0	220.4	209.5	173.5	167.3
67.5°	112.6	115.7	103.2	95.4	95.4	93.8	92.2	100.0	123.5	120.4	121.9
70°	96.9	106.3	95.4	86.0	82.9	78.2	65.7	54.7	46.9	54.7	57.8
72.5°	78.2	84.4	81.3	73.5	65.7	59.4	46.9	36.0	26.6	23.4	23.4
75°	57.8	62.5	65.7	56.3	50.0	42.2	34.4	23.4	14.1	9.4	9.4
77.5°	42.2	46.9	48.5	43.8	37.5	29.7	21.9	15.6	7.8	3.1	3.1
80°	36.0	42.2	46.9	43.8	39.1	28.1	20.3	10.9	6.3	1.6	1.6
82.5°	34.4	42.2	46.9	42.2	37.5	26.6	20.3	12.5	4.7	1.6	1.6
85°	7.8	10.9	14.1	17.2	20.3	20.3	15.6	9.4	4.7	1.6	1.6
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	1.6	1.6	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)