

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: P528345

Luminaire Tested: **GALN-SA3B-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528345
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-SA3B-830-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA 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: 8927 lumens
Efficiency: N/A
Efficacy: 73.8 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

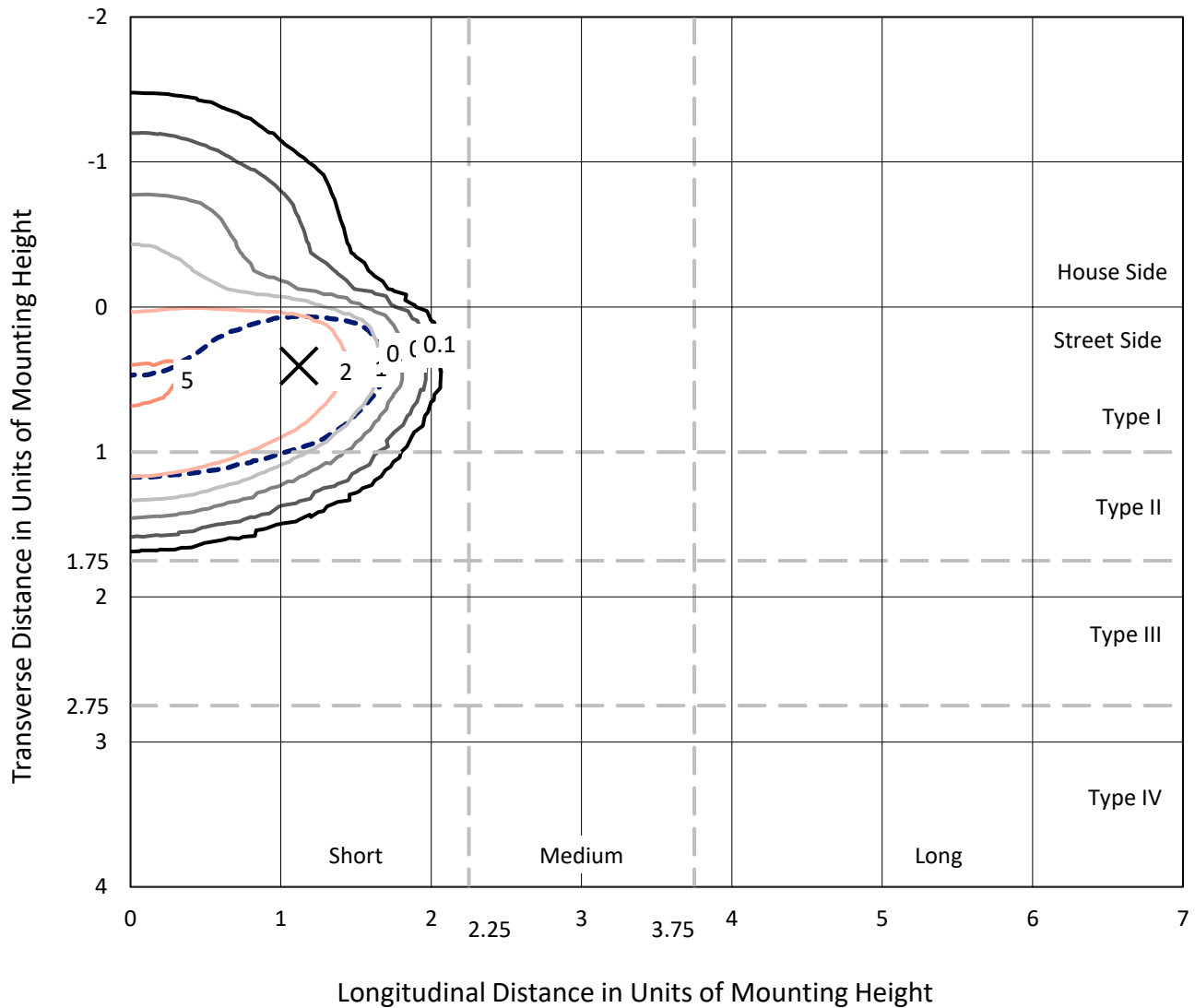


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

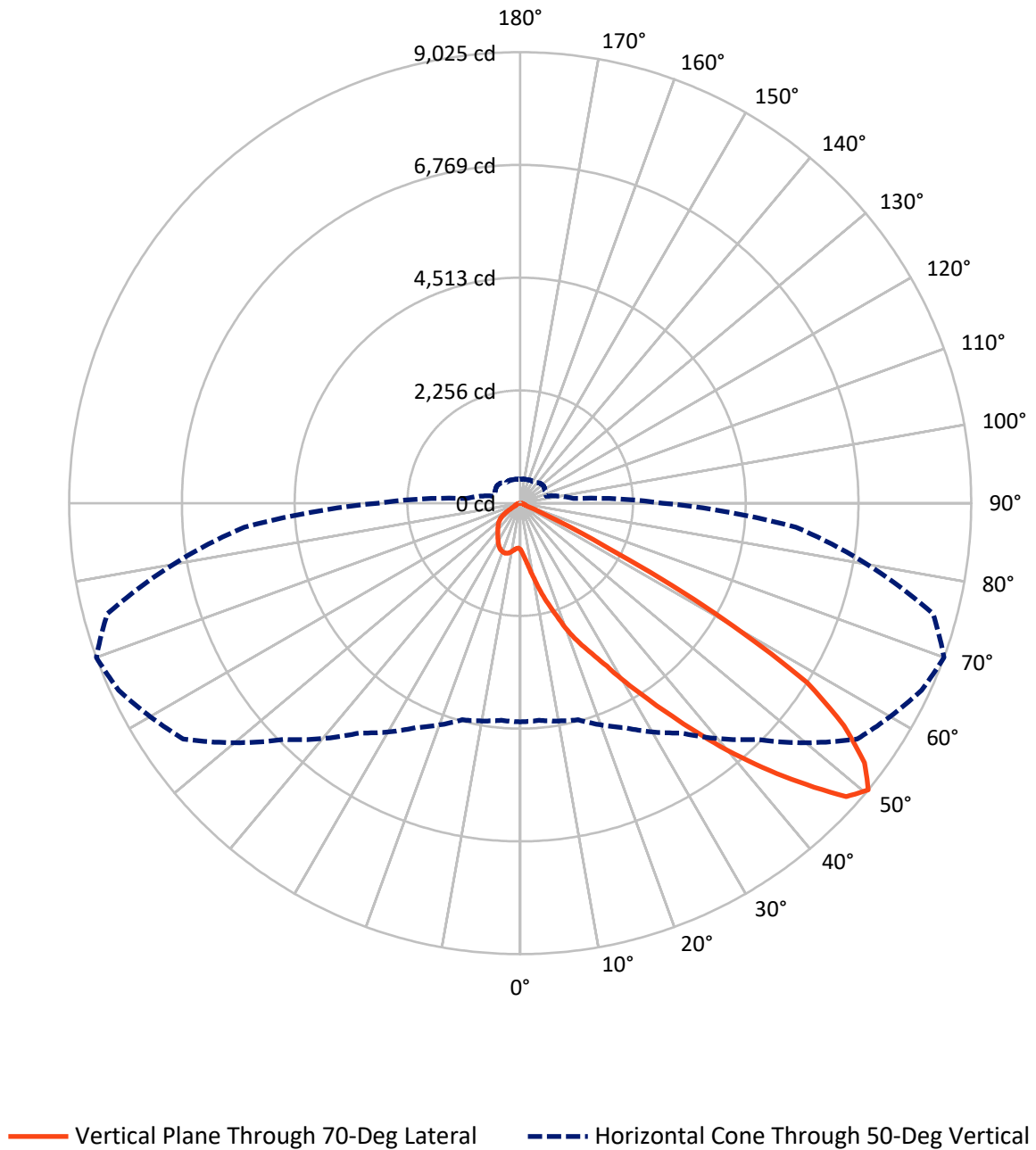


Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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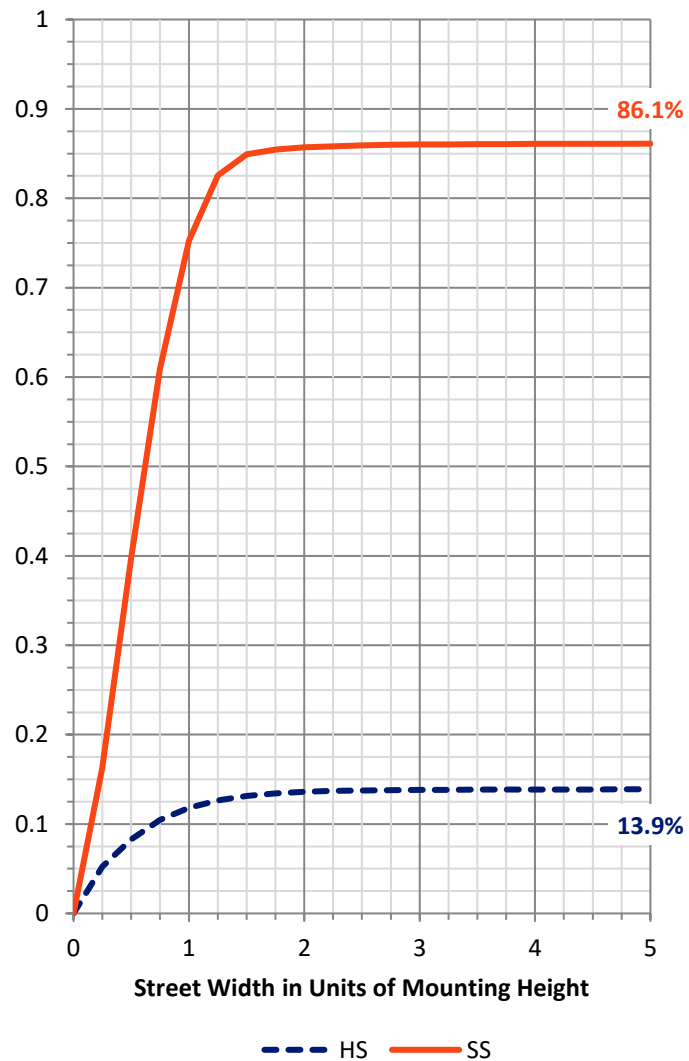
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1246.7	0.0	1246.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	7680.3	0.0	7680.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	8927.0	0.0	8927.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.2	1.3
10°-20°	520.1	5.8
20°-30°	1091.1	12.2
30°-40°	1880.7	21.1
40°-50°	2748.6	30.8
50°-60°	2140.7	24.0
60°-70°	362.7	4.1
70°-80°	49.8	0.6
80°-90°	12.9	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°	8927.0	100.0
0°-180°	8927.0	100.0

Coefficient of Utilization



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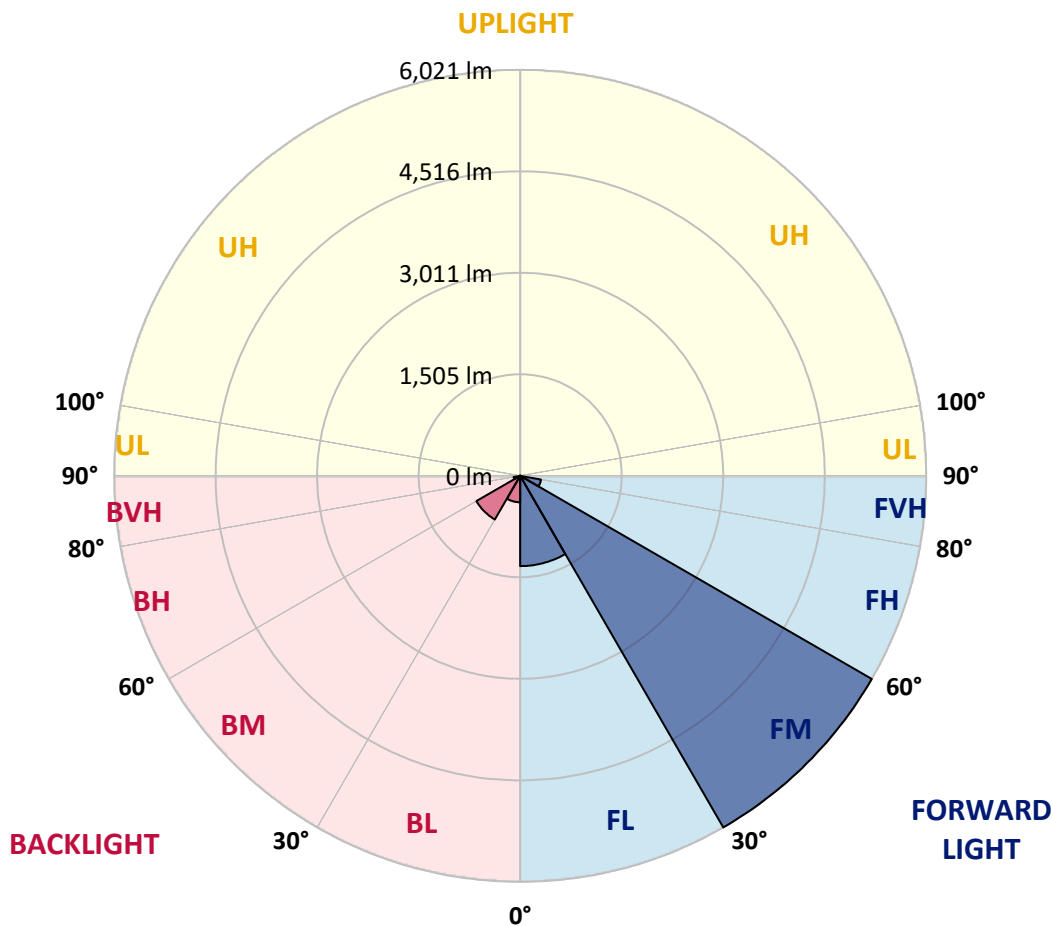
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1339.2	15.0			
FM	(30°-60°)	6021.1	67.4			
FH	(60°-80°)	314.1	3.5			G0/660
FVH	(80°-90°)	6.0	0.1			G0/10
BL	(0°-30°)	392.3	4.4	B1/500		
BM	(30°-60°)	749.0	8.4	B1/1000		
BH	(60°-80°)	98.5	1.1	B0/110		G0/110
BVH	(80°-90°)	6.9	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°	924.7	924.7	924.7	924.7	924.7	924.7	924.7	924.7	924.7	924.7	924.7
2.5°	1210.9	1202.1	1183.0	1147.8	1133.1	1097.9	1077.3	1037.7	1012.7	984.8	954.0
5°	1705.5	1660.0	1632.1	1592.5	1476.5	1404.6	1285.7	1184.4	1137.5	1086.1	1015.7
7.5°	2216.3	2186.9	2148.7	2063.6	1984.4	1834.6	1630.6	1407.5	1312.1	1224.1	1084.6
10°	2639.0	2556.8	2552.4	2489.2	2402.7	2223.6	1978.5	1701.1	1530.8	1401.7	1183.0
12.5°	2934.0	2859.1	2892.9	2885.5	2804.8	2640.4	2357.2	1990.2	1812.6	1611.6	1284.3
15°	3202.6	3171.7	3161.5	3152.7	3120.4	2998.5	2744.6	2342.5	2085.6	1843.5	1398.7
17.5°	3465.3	3386.0	3424.2	3431.5	3428.6	3318.5	3080.7	2677.1	2374.8	2088.6	1519.1
20°	3698.6	3706.0	3654.6	3644.3	3635.5	3631.1	3399.2	3008.8	2730.0	2345.4	1676.1
22.5°	3998.1	3946.7	3992.2	3962.8	3905.6	3870.4	3692.8	3302.4	3038.2	2655.1	1836.1
25°	4351.8	4392.9	4285.7	4274.0	4210.9	4089.1	3929.1	3631.1	3334.7	2942.8	2009.3
27.5°	4787.7	4715.8	4687.9	4623.3	4508.8	4457.5	4269.6	3970.2	3692.8	3245.1	2176.6
30°	5162.0	5142.9	5003.4	4927.1	4827.3	4825.9	4563.1	4429.6	4159.5	3719.2	2407.1
32.5°	5467.2	5383.6	5332.2	5279.4	5198.7	5220.7	4999.0	4928.6	4657.1	4159.5	2678.6
35°	5671.3	5611.1	5580.3	5499.5	5476.1	5574.4	5481.9	5452.6	5229.5	4778.9	2997.1
37.5°	5735.8	5754.9	5749.0	5647.8	5697.7	5963.3	6082.2	6005.9	5888.5	5432.0	3342.0
40°	5793.1	5806.3	5776.9	5895.8	6038.2	6340.5	6770.6	6644.4	6600.3	6094.0	3821.9
42.5°	5825.4	5815.1	5815.1	6020.6	6236.3	6844.0	7435.5	7351.8	7318.0	6798.5	4376.7
45°	5685.9	5586.1	5693.3	5972.1	6406.6	7092.0	7966.8	8082.7	8034.3	7636.5	5025.5
47.5°	5164.9	5226.5	5286.7	5659.5	6199.6	7015.7	8292.6	8687.4	8776.9	8341.0	5451.1
50°	4376.7	4363.5	4488.3	4957.9	5614.0	6686.9	8229.5	8862.1	9025.0	8552.4	5540.6
52.5°	3183.5	3280.3	3415.4	3882.1	4660.0	5835.6	7414.9	8411.5	8628.7	8292.6	5481.9
55°	1853.7	1746.6	2050.4	2445.2	3179.1	4401.7	6268.6	7456.0	7858.2	7820.0	5185.4
57.5°	742.7	719.2	823.4	1109.6	1658.5	2728.5	4558.7	6126.2	6770.6	7162.5	4557.3
60°	325.8	318.5	374.3	452.1	678.1	1257.8	2493.7	3810.2	4482.4	5004.9	3136.5
62.5°	234.8	231.9	259.8	287.7	358.1	547.5	1047.9	1535.2	1913.9	2311.7	1404.6
65°	189.3	196.7	215.8	230.4	264.2	303.8	369.9	427.1	524.0	543.1	309.7
67.5°	154.1	160.0	177.6	193.7	199.6	164.4	170.3	149.7	149.7	133.6	107.1
70°	113.0	114.5	135.0	154.1	123.3	66.0	115.9	115.9	104.2	99.8	91.0
72.5°	83.7	85.1	101.3	95.4	48.4	41.1	85.1	93.9	85.1	80.7	73.4
75°	61.6	63.1	52.8	22.0	20.5	26.4	49.9	64.6	61.6	60.2	55.8
77.5°	11.7	8.8	7.3	10.3	14.7	22.0	32.3	39.6	41.1	44.0	41.1
80°	1.5	1.5	4.4	8.8	16.1	23.5	33.8	38.2	39.6	41.1	38.2
82.5°	0.0	1.5	4.4	8.8	16.1	22.0	29.4	33.8	36.7	38.2	36.7
85°	0.0	1.5	2.9	7.3	13.2	16.1	14.7	10.3	8.8	10.3	7.3
87.5°	0.0	0.0	1.5	1.5	2.9	2.9	2.9	2.9	2.9	2.9	2.9
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°	924.7	924.7	924.7	924.7	924.7	924.7	924.7	924.7	924.7	924.7	924.7
2.5°	936.4	930.5	910.0	888.0	868.9	877.7	868.9	861.5	864.5	861.5	858.6
5°	987.8	961.4	917.3	898.2	882.1	880.6	876.2	874.8	876.2	876.2	863.0
7.5°	1036.2	993.6	946.7	926.1	907.0	908.5	898.2	898.2	896.8	889.4	886.5
10°	1109.6	1052.4	992.2	955.5	932.0	927.6	917.3	907.0	907.0	907.0	892.4
12.5°	1190.3	1118.4	1036.2	993.6	965.8	943.7	927.6	924.7	908.5	905.6	898.2
15°	1260.8	1169.8	1065.6	1006.9	971.6	942.3	917.3	901.2	893.8	889.4	883.6
17.5°	1329.8	1213.8	1081.7	1006.9	968.7	934.9	908.5	893.8	876.2	879.2	867.4
20°	1422.2	1260.8	1086.1	987.8	940.8	908.5	873.3	866.0	855.7	846.9	849.8
22.5°	1511.7	1294.5	1072.9	964.3	896.8	858.6	841.0	832.2	827.8	820.5	810.2
25°	1592.5	1331.2	1052.4	921.7	849.8	821.9	805.8	804.3	794.0	794.0	775.0
27.5°	1674.7	1344.4	1017.1	871.8	808.7	792.6	785.2	782.3	777.9	767.6	754.4
30°	1768.6	1348.8	965.8	820.5	772.0	754.4	764.7	772.0	752.9	733.9	739.7
32.5°	1846.4	1338.6	904.1	772.0	745.6	736.8	757.3	764.7	742.7	722.1	711.8
35°	1940.3	1313.6	843.9	733.9	719.2	736.8	754.4	754.4	710.4	685.4	679.6
37.5°	2082.7	1285.7	788.2	701.6	691.3	728.0	751.5	735.3	666.3	635.5	628.2
40°	2235.3	1268.1	733.9	669.3	676.6	713.3	726.5	676.6	606.2	587.1	581.2
42.5°	2457.0	1232.9	685.4	641.4	663.4	692.8	692.8	603.2	576.8	566.5	565.1
45°	2732.9	1207.9	642.9	617.9	644.3	651.7	628.2	565.1	546.0	543.1	544.5
47.5°	2867.9	1159.5	598.8	590.0	609.1	610.6	548.9	534.2	518.1	513.7	510.8
50°	2847.4	1072.9	541.6	553.3	579.7	565.1	500.5	503.4	488.7	487.3	479.9
52.5°	2703.5	936.4	484.3	512.2	541.6	499.0	460.9	457.9	457.9	438.8	431.5
55°	2396.8	754.4	415.4	450.6	485.8	419.8	409.5	406.6	399.2	381.6	377.2
57.5°	1897.8	553.3	312.6	350.8	412.4	356.7	355.2	342.0	322.9	309.7	309.7
60°	1128.7	318.5	196.7	214.3	273.0	289.1	321.4	315.6	283.3	262.7	256.9
62.5°	515.2	164.4	124.8	127.7	146.8	187.9	252.4	292.1	246.6	211.4	208.4
65°	173.2	121.8	102.7	98.3	101.3	113.0	151.2	206.9	196.7	162.9	157.0
67.5°	105.7	108.6	96.9	89.5	89.5	88.1	86.6	93.9	115.9	113.0	114.5
70°	91.0	99.8	89.5	80.7	77.8	73.4	61.6	51.4	44.0	51.4	54.3
72.5°	73.4	79.3	76.3	69.0	61.6	55.8	44.0	33.8	25.0	22.0	22.0
75°	54.3	58.7	61.6	52.8	47.0	39.6	32.3	22.0	13.2	8.8	8.8
77.5°	39.6	44.0	45.5	41.1	35.2	27.9	20.5	14.7	7.3	2.9	2.9
80°	33.8	39.6	44.0	41.1	36.7	26.4	19.1	10.3	5.9	1.5	1.5
82.5°	32.3	39.6	44.0	39.6	35.2	25.0	19.1	11.7	4.4	1.5	1.5
85°	7.3	10.3	13.2	16.1	19.1	19.1	14.7	8.8	4.4	1.5	1.5
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	1.5	1.5	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)