

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: P948434

Luminaire Tested: **GALN-SB3C-727-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3C-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17646 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 149.1
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

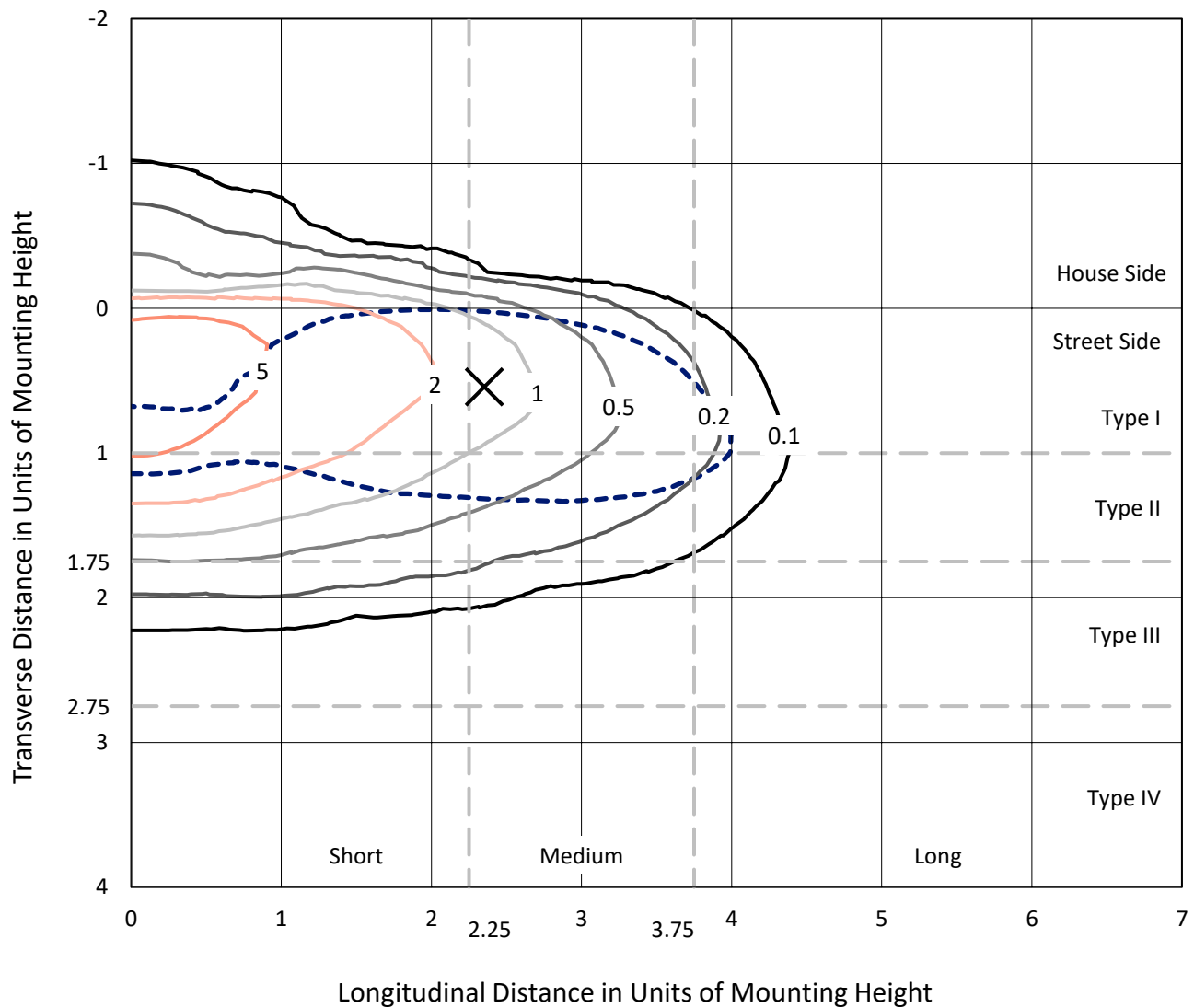


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

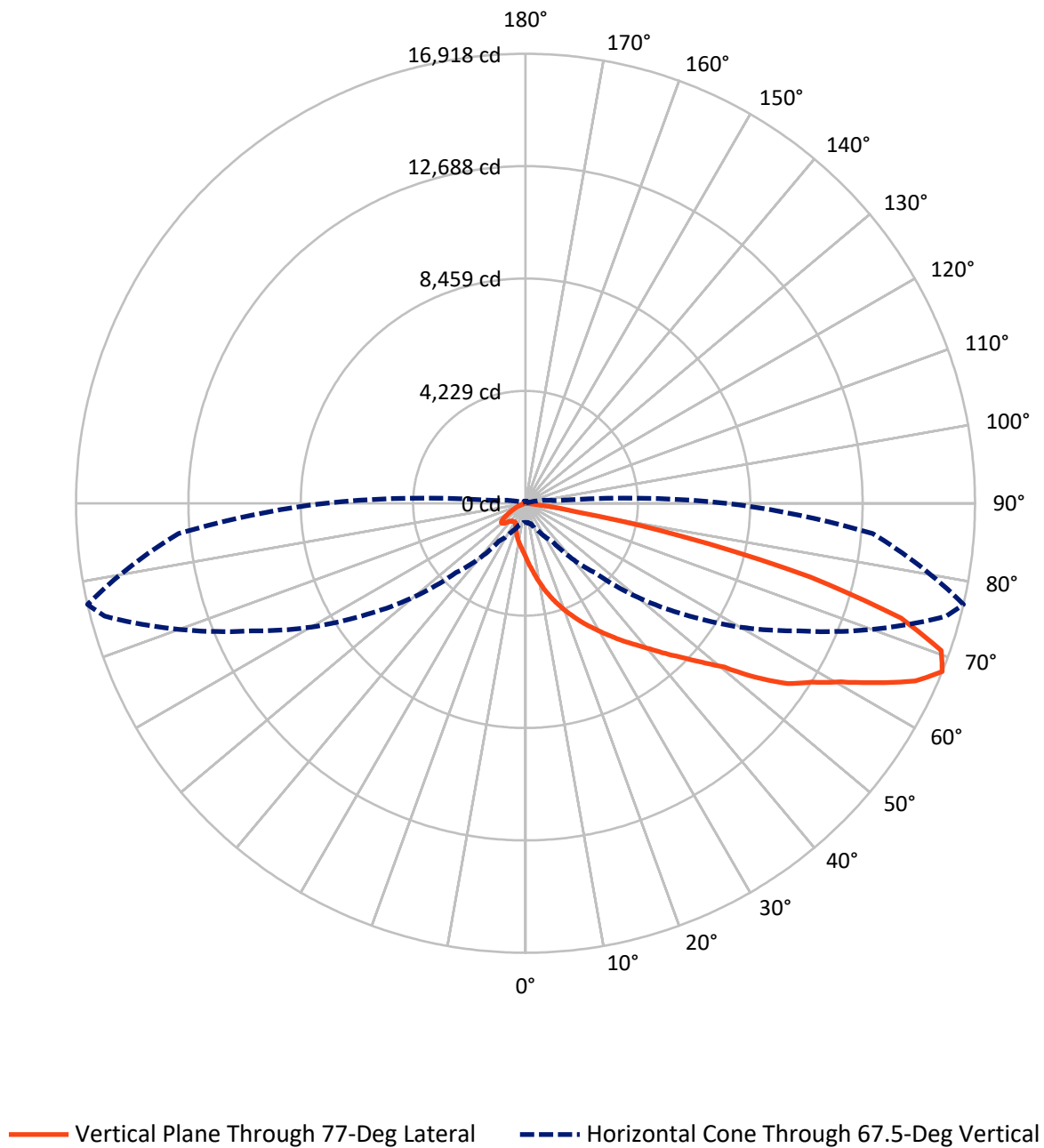


Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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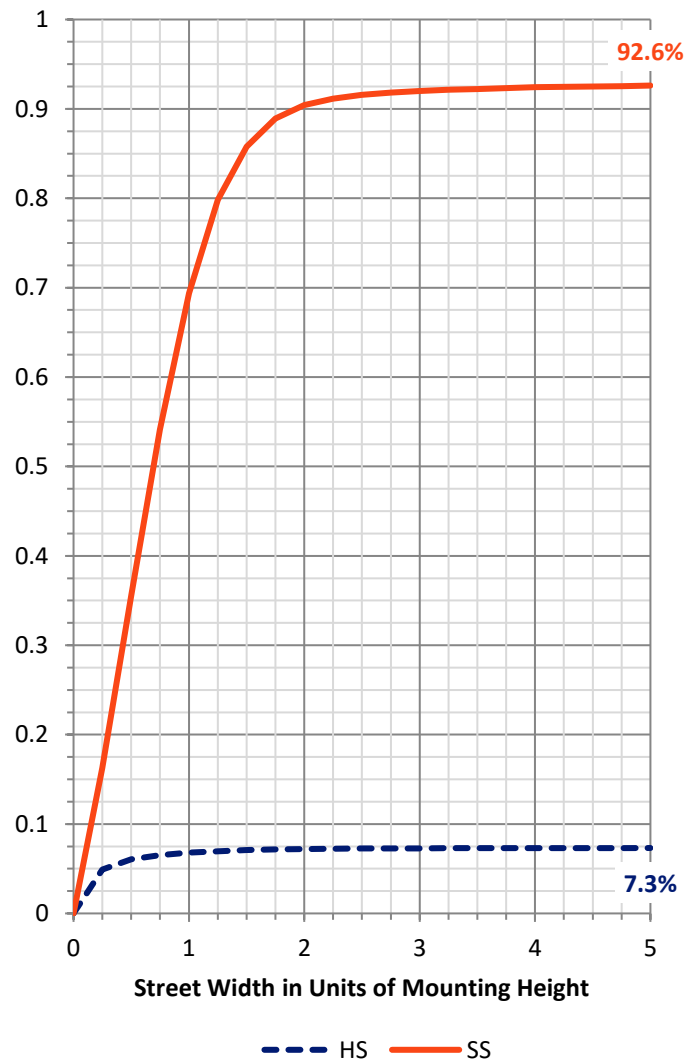
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1298.2	0.0	1298.2
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	16347.8	0.0	16347.8
	% Fixture	92.6	0.0	92.6
Total	Lumens	17646.0	0.0	17646.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.7	1.2
10°-20°	727.3	4.1
20°-30°	1403.5	8.0
30°-40°	2436.5	13.8
40°-50°	3537.7	20.0
50°-60°	4062.6	23.0
60°-70°	3527.1	20.0
70°-80°	1661.3	9.4
80°-90°	82.2	0.5
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°	17646.0	100.0
0°-180°	17646.0	100.0

Coefficient of Utilization



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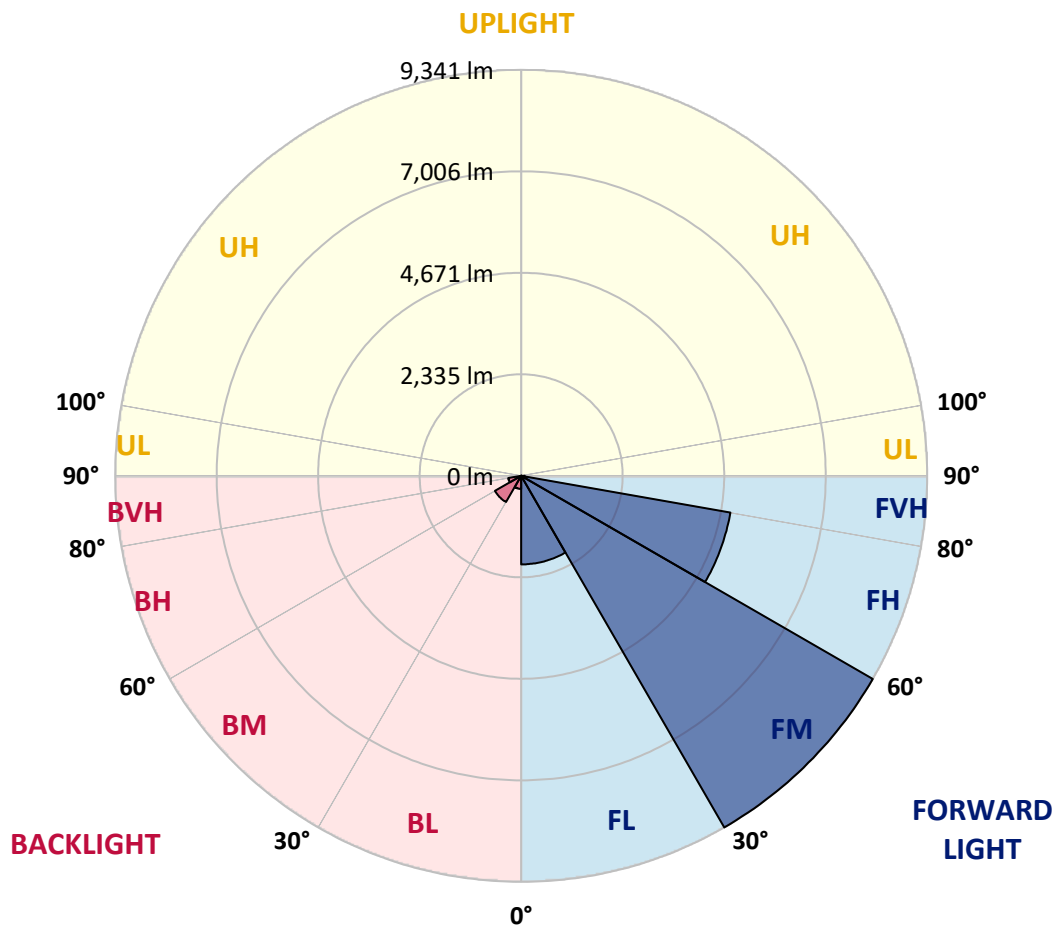
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2037.9	11.5			
FM	(30°-60°)	9341.3	52.9			
FH	(60°-80°)	4887.9	27.7			G2/5000
FVH	(80°-90°)	80.6	0.5			G1/100
BL	(0°-30°)	300.6	1.7	B1/500		
BM	(30°-60°)	695.6	3.9	B1/1000		
BH	(60°-80°)	300.5	1.7	B1/500		G1/500
BVH	(80°-90°)	1.5	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8
2.5°	2817.2	2834.8	2809.6	2761.3	2689.0	2641.9	2526.8	2418.4	2297.8	2259.5	2138.9
5°	3434.1	3449.5	3421.0	3368.4	3272.0	3179.9	3028.7	2801.9	2566.3	2490.7	2277.0
7.5°	3891.1	3899.8	3888.9	3840.7	3748.6	3644.5	3475.8	3207.3	2857.8	2774.5	2446.9
10°	4219.8	4248.3	4245.0	4226.4	4165.0	4080.6	3900.9	3595.2	3184.3	3076.9	2638.6
12.5°	4437.9	4469.6	4488.3	4529.9	4526.6	4472.9	4315.1	3991.9	3509.7	3383.7	2854.5
15°	4501.4	4535.4	4606.6	4703.0	4788.5	4815.9	4705.2	4380.9	3868.1	3707.0	3075.8
17.5°	4465.3	4517.9	4603.3	4755.6	4943.0	5066.8	5054.8	4756.7	4193.5	4009.4	3292.8
20°	4545.3	4595.7	4662.5	4790.7	5008.8	5233.4	5323.2	5116.1	4516.8	4323.9	3520.7
22.5°	4987.9	4979.2	4985.7	5006.6	5137.0	5359.4	5544.6	5442.7	4836.7	4639.5	3761.8
25°	5689.2	5649.8	5582.9	5470.1	5437.2	5544.6	5737.4	5732.0	5174.2	4962.7	4008.3
27.5°	6493.5	6487.0	6330.3	6058.5	5905.1	5863.5	5955.5	6013.6	5508.4	5282.7	4256.0
30°	7263.9	7281.4	7069.9	6767.5	6485.9	6322.6	6239.3	6280.9	5848.1	5627.9	4511.3
32.5°	7934.5	7953.1	7723.0	7369.0	7020.6	6823.4	6648.0	6545.0	6218.5	5978.5	4791.8
35°	8501.0	8519.6	8255.5	7864.3	7492.9	7314.3	7115.9	6834.3	6591.1	6367.5	5104.1
37.5°	9007.2	9001.7	8647.8	8253.3	7888.4	7747.1	7643.0	7190.4	6974.6	6758.7	5450.4
40°	9306.4	9329.4	9026.9	8591.9	8238.0	8135.0	8128.4	7632.0	7417.3	7208.0	5829.5
42.5°	9394.0	9434.6	9215.4	8858.2	8537.1	8425.4	8597.4	8109.8	7932.3	7728.5	6257.9
45°	9236.2	9275.7	9176.0	8928.3	8740.9	8668.6	9000.6	8605.1	8482.3	8280.7	6741.2
47.5°	8776.0	8825.3	8849.4	8796.8	8794.6	8868.1	9362.3	9126.7	9135.4	8929.4	7301.1
50°	7885.2	7968.4	8189.8	8376.1	8664.2	9025.8	9714.0	9692.1	9871.8	9694.3	8030.9
52.5°	6265.6	6384.0	7146.6	7656.1	8303.7	8996.3	10100.8	10599.4	11163.7	10904.0	9059.8
55°	5035.1	5035.1	5655.3	6608.6	7600.3	8801.2	10269.5	11188.9	12043.6	11982.2	9784.1
57.5°	4104.8	4154.1	4549.6	5392.3	6582.3	8336.6	10373.6	11559.3	12752.6	12707.6	10492.0
60°	2533.4	2639.7	3387.0	4218.7	5424.1	7509.3	10307.9	11934.0	13612.7	13648.9	11344.5
62.5°	1426.7	1466.1	1799.3	3035.3	4217.6	6397.1	9804.9	12143.3	14712.9	14866.3	12223.3
65°	985.1	1004.8	1133.0	1889.1	2923.5	5093.1	8822.0	12012.9	15815.2	16125.3	12968.4
67.5°	715.5	725.4	805.4	1153.8	1734.6	3692.7	7281.4	11355.5	16399.3	16917.6	13110.9
70°	550.1	556.7	614.7	758.3	1024.5	2279.2	5288.2	10048.2	15976.3	16595.4	12381.1
72.5°	447.1	453.6	498.6	561.0	679.4	1347.8	3205.1	8160.2	14109.1	14777.5	10540.2
75°	376.9	385.7	426.3	466.8	532.5	865.7	1503.4	5682.7	10610.3	11048.6	7329.6
77.5°	209.3	192.9	346.3	386.8	449.3	547.9	703.5	3344.3	5942.4	6064.0	3252.2
80°	130.4	134.8	275.0	311.2	345.2	276.1	322.2	1287.5	2060.0	1957.0	630.1
82.5°	7.7	17.5	211.5	224.6	236.7	118.3	121.6	437.2	496.4	455.8	111.8
85°	0.0	0.0	96.4	77.8	82.2	34.0	35.1	101.9	66.8	72.3	21.9
87.5°	0.0	0.0	0.0	2.2	0.0	3.3	6.6	8.8	3.3	4.4	7.7
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°	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8
2.5°	2062.2	1985.5	1829.9	1677.6	1553.8	1438.7	1356.6	1278.8	1239.3	1237.1	1234.9
5°	2124.7	1963.6	1652.4	1377.4	1156.0	978.5	863.5	781.3	739.6	725.4	723.2
7.5°	2212.4	1970.2	1496.8	1114.4	853.6	701.3	635.5	609.2	600.5	590.6	588.4
10°	2323.0	1985.5	1357.7	897.4	672.8	596.1	569.8	558.8	552.3	545.7	543.5
12.5°	2446.9	1999.8	1219.6	745.1	591.7	552.3	533.6	520.5	511.7	504.1	501.9
15°	2567.4	2008.5	1076.0	638.8	550.1	518.3	498.6	484.3	472.3	463.5	462.4
17.5°	2686.8	2020.6	941.3	575.3	516.1	484.3	464.6	447.1	437.2	427.3	426.3
20°	2819.4	2018.4	814.2	530.4	482.1	450.4	429.5	413.1	403.2	392.3	391.2
22.5°	2942.1	2007.4	702.4	492.0	447.1	416.4	393.4	376.9	367.1	358.3	357.2
25°	3083.5	1998.7	609.2	456.9	414.2	383.5	358.3	343.0	332.0	324.3	323.3
27.5°	3219.4	1985.5	541.3	425.2	382.4	352.8	328.7	311.2	301.3	295.9	295.9
30°	3353.1	1982.2	516.1	394.5	353.9	324.3	300.2	283.8	276.1	273.9	272.8
32.5°	3514.1	1991.0	527.1	383.5	327.6	298.0	275.0	263.0	255.3	255.3	255.3
35°	3686.2	1988.8	543.5	393.4	310.1	271.8	254.2	246.5	238.9	238.9	238.9
37.5°	3902.0	1992.1	556.7	409.8	303.5	249.8	240.0	230.1	225.7	225.7	225.7
40°	4224.2	2100.6	550.1	424.1	301.3	234.5	214.8	211.5	208.2	208.2	208.2
42.5°	4618.7	2336.2	558.8	425.2	300.2	223.5	197.2	203.8	196.1	195.0	194.0
45°	5050.4	2593.7	614.7	402.1	299.1	218.1	188.5	196.1	184.1	184.1	184.1
47.5°	5478.8	2849.0	671.7	369.3	295.9	217.0	180.8	176.4	173.1	174.2	174.2
50°	6069.5	3057.2	693.6	324.3	288.2	214.8	166.6	167.7	165.5	167.7	167.7
52.5°	6712.7	3101.0	667.3	273.9	266.3	208.2	156.7	161.1	160.0	162.2	162.2
55°	7113.7	3053.9	551.2	227.9	232.3	181.9	146.8	155.6	155.6	155.6	155.6
57.5°	7527.9	2853.4	391.2	185.2	192.9	149.0	138.1	150.1	149.0	147.9	147.9
60°	7826.0	2529.0	257.5	152.3	153.4	122.7	128.2	141.4	140.3	134.8	134.8
62.5°	8048.4	2170.7	165.5	129.3	117.2	110.7	117.2	128.2	123.8	111.8	109.6
65°	8023.2	1674.3	127.1	110.7	96.4	96.4	101.9	111.8	98.6	78.9	76.7
67.5°	7555.3	1133.0	105.2	93.1	81.1	80.0	84.4	93.1	84.4	66.8	64.7
70°	6719.3	740.7	84.4	72.3	64.7	59.2	67.9	80.0	71.2	53.7	51.5
72.5°	5453.6	451.5	63.6	52.6	47.1	38.4	53.7	65.7	57.0	39.4	37.3
75°	3528.4	230.1	43.8	34.0	25.2	23.0	39.4	49.3	39.4	24.1	20.8
77.5°	1350.0	96.4	24.1	15.3	13.1	11.0	21.9	29.6	16.4	5.5	4.4
80°	259.7	40.5	12.1	7.7	6.6	4.4	3.3	2.2	0.0	0.0	0.0
82.5°	44.9	13.1	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	0.0	0.0	0.0	0.0	0.0	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)