

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: P191261

Luminaire Tested: **GLEON-AF-03-LED-E1-SL4-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191261
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-SL4-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA 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: 19377.8 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

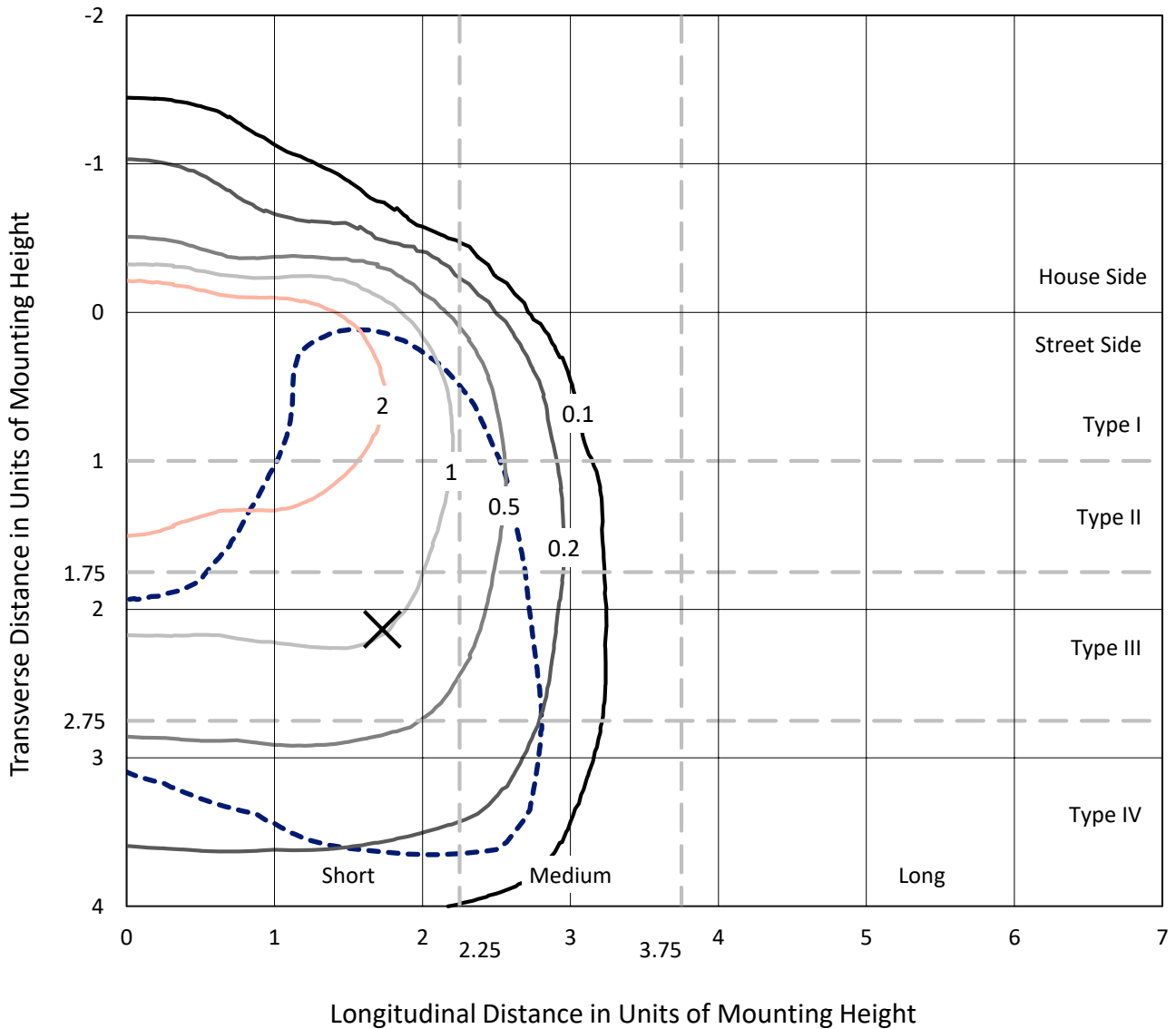
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

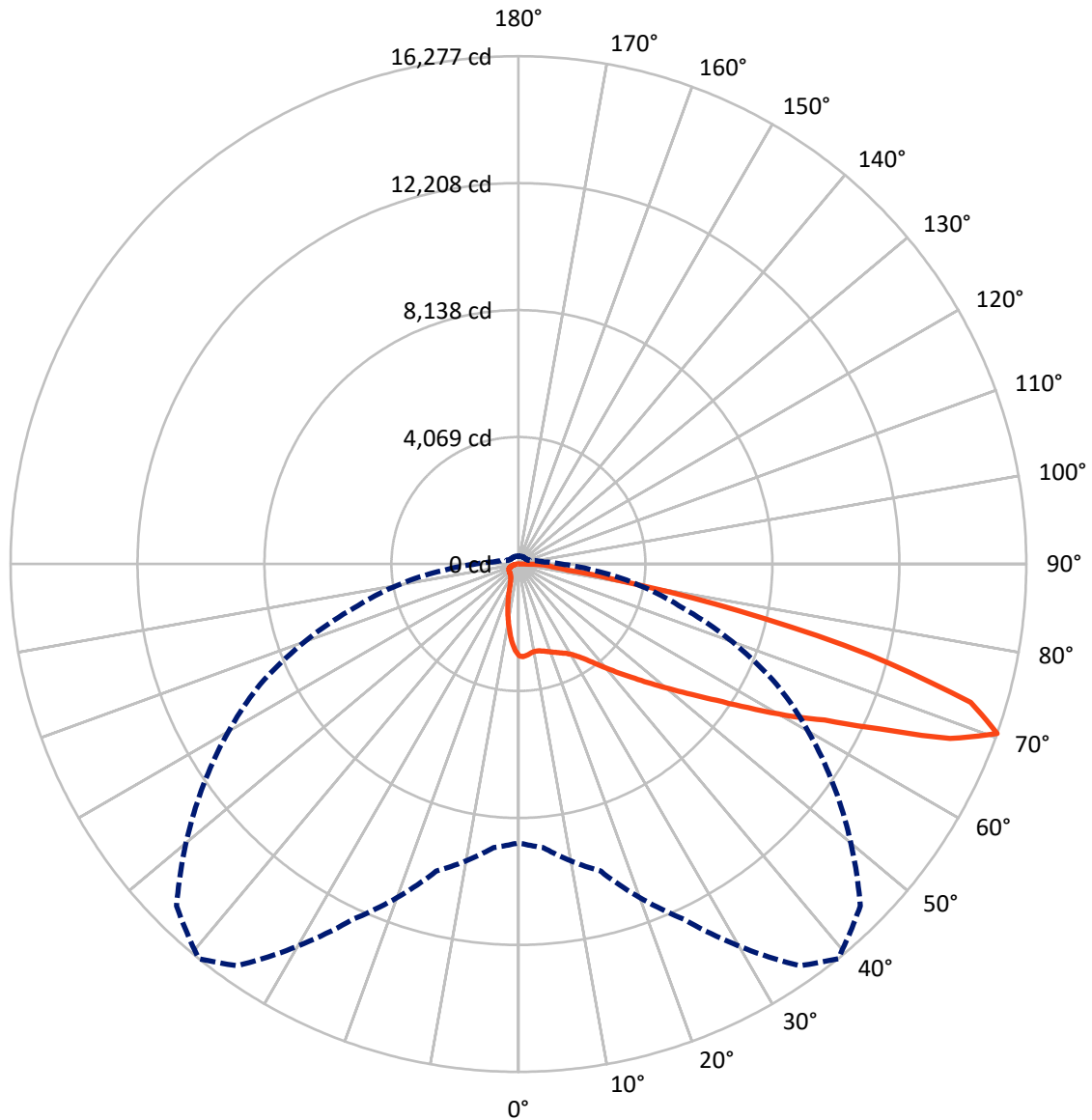
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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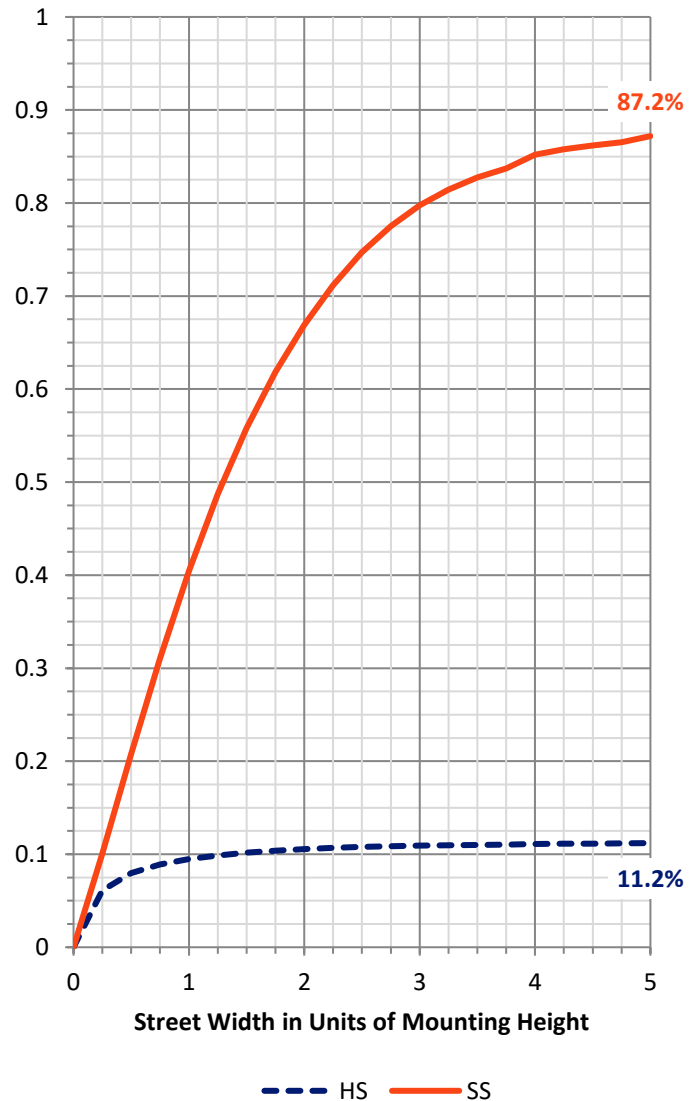
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2203.9	0.0	2203.9
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	17173.8	0.0	17173.8
	% Fixture	88.6	0.0	88.6
Total	Lumens	19377.8	0.0	19377.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.5	1.3
10°-20°	631.1	3.3
20°-30°	982.6	5.1
30°-40°	1530.7	7.9
40°-50°	2569.8	13.3
50°-60°	4082.3	21.1
60°-70°	5445.4	28.1
70°-80°	3288.3	17.0
80°-90°	595.1	3.1
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°	19377.8	100.0
0°-180°	19377.8	100.0



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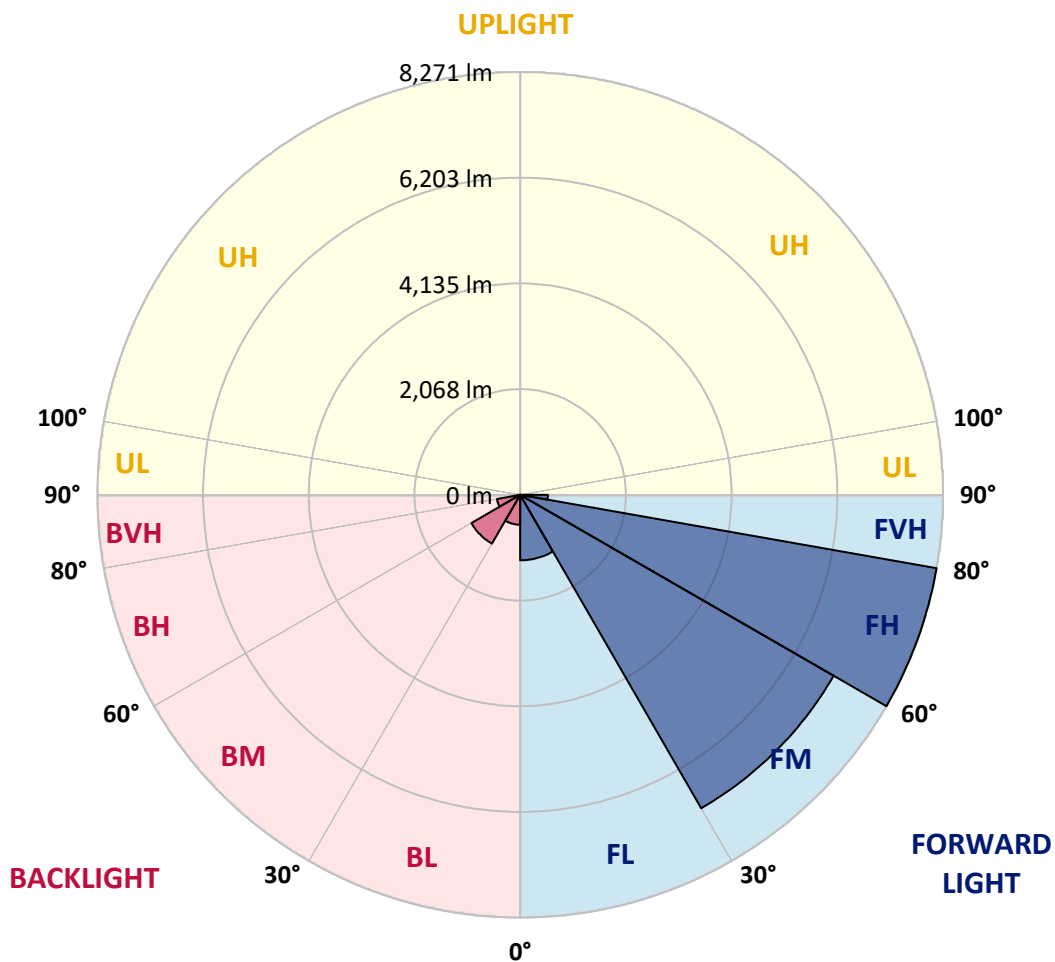
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1281.5	6.6			
FM	(30°-60°)	7079.9	36.5			
FH	(60°-80°)	8271.0	42.7			G4/12000
FVH	(80°-90°)	541.5	2.8			G4/750
BL	(0°-30°)	584.7	3.0	B2/1000		
BM	(30°-60°)	1102.9	5.7	B2/2500		
BH	(60°-80°)	462.7	2.4	B1/500		G1/500
BVH	(80°-90°)	53.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2941.8	2941.8	2941.8	2941.8	2941.8	2941.8	2941.8	2941.8	2941.8	2941.8	2941.8
2.5°	2999.0	2998.0	2990.1	2984.3	2979.2	2977.3	2981.3	2966.5	2953.7	2937.9	2921.1
5°	2976.3	2975.4	2962.6	2950.7	2938.9	2934.9	2933.9	2907.3	2891.6	2867.9	2836.4
7.5°	2951.7	2946.8	2930.0	2910.3	2889.6	2879.8	2869.9	2835.4	2817.7	2794.1	2757.6
10°	2926.0	2920.2	2904.4	2884.7	2865.0	2850.2	2833.5	2800.0	2781.3	2763.5	2721.2
12.5°	2899.5	2894.5	2890.7	2881.8	2867.9	2855.2	2842.4	2813.7	2794.1	2773.3	2724.1
15°	2895.6	2893.5	2902.4	2908.4	2900.5	2892.6	2878.8	2854.1	2833.5	2812.8	2748.8
17.5°	2927.1	2926.0	2948.8	2964.5	2960.5	2946.8	2928.1	2900.5	2883.7	2866.0	2786.2
20°	2996.0	3000.9	3028.5	3049.2	3029.6	3009.8	2979.2	2940.9	2932.0	2924.1	2824.6
22.5°	3126.0	3131.0	3150.7	3158.6	3107.3	3078.8	3036.4	2987.1	2981.3	2987.1	2870.9
25°	3329.0	3324.1	3321.1	3291.5	3197.9	3153.7	3099.4	3048.3	3051.2	3077.8	2936.0
27.5°	3598.0	3571.4	3530.0	3441.3	3292.6	3243.4	3177.3	3130.0	3148.7	3200.0	3033.5
30°	3876.8	3847.2	3751.7	3606.8	3416.8	3362.5	3288.7	3235.4	3284.7	3365.5	3163.5
32.5°	4135.0	4131.0	3991.1	3804.9	3588.1	3540.8	3467.0	3406.8	3486.6	3609.8	3358.6
35°	4416.7	4425.6	4258.1	4034.4	3819.7	3770.4	3717.2	3671.9	3778.3	3947.8	3641.3
37.5°	4718.2	4736.0	4537.9	4285.7	4083.7	4063.1	4031.4	4011.8	4176.3	4410.8	4036.5
40°	5121.1	5103.4	4828.5	4569.4	4407.8	4406.9	4397.1	4420.7	4694.5	5015.7	4543.8
42.5°	5552.7	5500.4	5136.8	4873.8	4763.5	4797.0	4816.7	4913.2	5318.2	5750.7	5162.5
45°	6017.7	5900.5	5457.1	5196.0	5158.5	5229.5	5296.5	5506.3	6052.2	6587.1	5840.3
47.5°	6389.1	6275.8	5788.2	5534.0	5615.7	5723.1	5852.2	6184.1	6873.8	7451.2	6509.3
50°	6681.7	6607.9	6122.2	5928.0	6119.2	6284.7	6495.5	6951.7	7729.0	8292.6	7129.0
52.5°	6965.5	6910.2	6459.0	6332.0	6710.3	6938.9	7225.5	7775.2	8605.8	9120.1	7650.1
55°	7221.6	7182.2	6821.6	6835.4	7405.9	7703.3	8063.9	8713.2	9561.5	9858.1	8091.5
57.5°	7510.3	7460.1	7235.4	7466.9	8299.4	8685.7	9154.6	9767.4	10458.0	10514.2	8427.5
60°	7800.9	7757.5	7694.5	8196.0	9434.4	9840.3	10284.6	10789.1	11367.3	11023.5	8407.8
62.5°	8053.1	8058.1	8169.4	8961.5	10545.7	11015.6	11557.5	12056.1	12190.0	11112.2	7786.1
65°	8480.7	8558.5	8890.6	10045.3	12110.2	12738.8	13403.8	13324.0	12417.6	10283.6	6453.2
67.5°	8989.1	9126.1	9798.9	11489.6	14087.6	14922.0	15179.2	13610.7	11506.3	8359.6	4600.0
70°	8937.8	9126.1	10191.0	12566.3	15717.1	16276.7	15496.4	12318.1	9136.9	5461.0	2443.3
72.5°	7936.9	8205.8	9392.0	12072.8	15203.8	15154.5	13453.0	9183.1	5428.5	2193.1	954.7
75°	6049.2	6321.1	7341.8	9537.9	12016.6	11602.8	9545.8	5072.8	2060.1	870.9	602.0
77.5°	3479.8	3690.6	4478.8	5849.2	7623.5	7198.9	5313.2	2256.1	1002.9	606.9	469.9
80°	1942.8	2060.1	2538.9	2967.5	3735.9	3424.6	2377.3	1402.0	748.8	440.4	362.5
82.5°	1536.0	1640.4	2053.2	1871.9	1706.4	1574.3	1365.5	1248.3	598.0	277.8	216.8
85°	1341.9	1441.3	1737.9	1473.9	1165.6	1069.0	1109.4	1228.6	465.0	167.5	185.3
87.5°	1243.3	1376.4	1548.7	1136.0	907.4	803.9	1023.7	1346.8	149.8	104.4	74.9
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°	2941.8	2941.8	2941.8	2941.8	2941.8	2941.8	2941.8	2941.8	2941.8	2941.8	2941.8
2.5°	2906.4	2890.7	2865.0	2842.4	2806.9	2788.2	2767.5	2752.7	2740.9	2731.0	2746.7
5°	2816.7	2787.1	2733.0	2674.8	2605.9	2551.8	2506.3	2464.0	2434.4	2414.8	2428.6
7.5°	2732.0	2683.7	2599.0	2493.5	2375.4	2274.8	2192.1	2119.1	2068.9	2036.4	2049.3
10°	2683.7	2623.7	2492.6	2327.1	2152.7	1996.1	1866.0	1753.6	1675.8	1631.5	1638.4
12.5°	2671.8	2594.1	2412.8	2185.2	1946.8	1729.1	1545.8	1390.1	1280.7	1223.7	1225.6
15°	2680.7	2581.2	2338.0	2049.3	1747.8	1472.8	1244.3	1055.2	928.0	863.1	862.0
17.5°	2695.6	2571.4	2259.1	1902.5	1545.8	1226.6	971.4	786.2	673.9	621.6	617.8
20°	2711.3	2555.6	2170.4	1743.8	1336.0	998.0	760.6	615.7	544.8	516.3	514.2
22.5°	2733.9	2541.8	2078.8	1576.4	1130.1	812.8	625.6	528.0	490.6	475.9	473.9
25°	2770.5	2535.0	1981.3	1402.0	944.8	679.8	544.8	484.7	463.1	453.2	452.2
27.5°	2831.5	2544.8	1889.6	1232.5	794.1	590.1	499.5	463.1	447.3	438.4	437.4
30°	2910.3	2575.4	1793.1	1072.0	676.9	529.1	471.9	448.3	435.5	426.6	426.6
32.5°	3041.3	2626.5	1691.7	933.0	593.1	486.7	451.2	435.5	424.6	417.8	416.8
35°	3234.5	2723.1	1597.0	817.7	533.0	456.1	433.5	421.7	413.8	409.9	409.9
37.5°	3515.3	2875.8	1513.3	735.0	496.5	435.5	416.8	407.9	402.9	402.9	402.9
40°	3892.5	3086.7	1445.3	679.8	475.9	420.6	404.0	397.0	394.0	395.1	395.1
42.5°	4358.6	3360.6	1400.0	641.4	466.1	411.8	395.1	389.1	386.2	385.2	386.2
45°	4889.6	3671.9	1395.1	612.8	456.1	405.9	389.1	383.2	377.4	373.4	373.4
47.5°	5405.9	3988.2	1435.4	602.9	445.3	399.1	384.2	378.3	369.5	360.6	360.6
50°	5862.0	4257.1	1489.6	606.9	441.4	389.1	376.3	373.4	359.6	349.7	348.7
52.5°	6224.6	4464.0	1534.0	618.7	445.3	382.3	366.5	367.4	352.7	341.9	340.8
55°	6515.2	4600.0	1522.2	630.5	454.2	378.3	357.6	359.6	347.8	337.0	337.0
57.5°	6642.3	4549.7	1391.1	620.7	461.0	379.3	350.8	358.6	348.7	338.9	338.9
60°	6369.4	4103.4	1145.8	577.4	452.2	376.3	347.8	362.5	361.6	351.7	350.8
62.5°	5543.8	3304.4	888.6	513.3	421.7	361.6	339.9	361.6	372.5	369.5	368.5
65°	4272.9	2353.7	678.8	444.4	380.3	337.0	319.2	338.9	353.7	357.6	356.6
67.5°	2773.3	1442.4	523.1	379.3	334.0	308.4	292.6	301.5	304.4	304.4	302.5
70°	1363.5	776.3	416.8	319.2	286.7	277.8	268.9	264.0	259.1	255.1	255.1
72.5°	672.9	507.4	342.9	270.0	247.2	243.4	241.4	235.5	231.5	226.6	224.6
75°	497.6	412.8	291.6	227.6	212.8	208.9	212.8	207.9	206.9	203.0	201.0
77.5°	408.9	351.7	251.2	195.1	182.3	175.3	181.3	182.3	183.2	177.4	175.3
80°	332.0	297.6	209.8	161.5	149.8	144.8	148.7	156.6	158.7	149.8	145.8
82.5°	239.4	243.4	169.5	126.1	116.2	112.3	120.2	130.0	132.1	119.2	116.2
85°	201.0	203.0	130.0	89.6	79.8	73.9	86.7	96.6	103.4	90.6	87.7
87.5°	83.8	119.2	74.9	50.2	44.3	38.5	46.3	51.2	62.1	57.2	56.2
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)