

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: P453725

Luminaire Tested: **GALN-SA4D-730-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4D-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27809 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

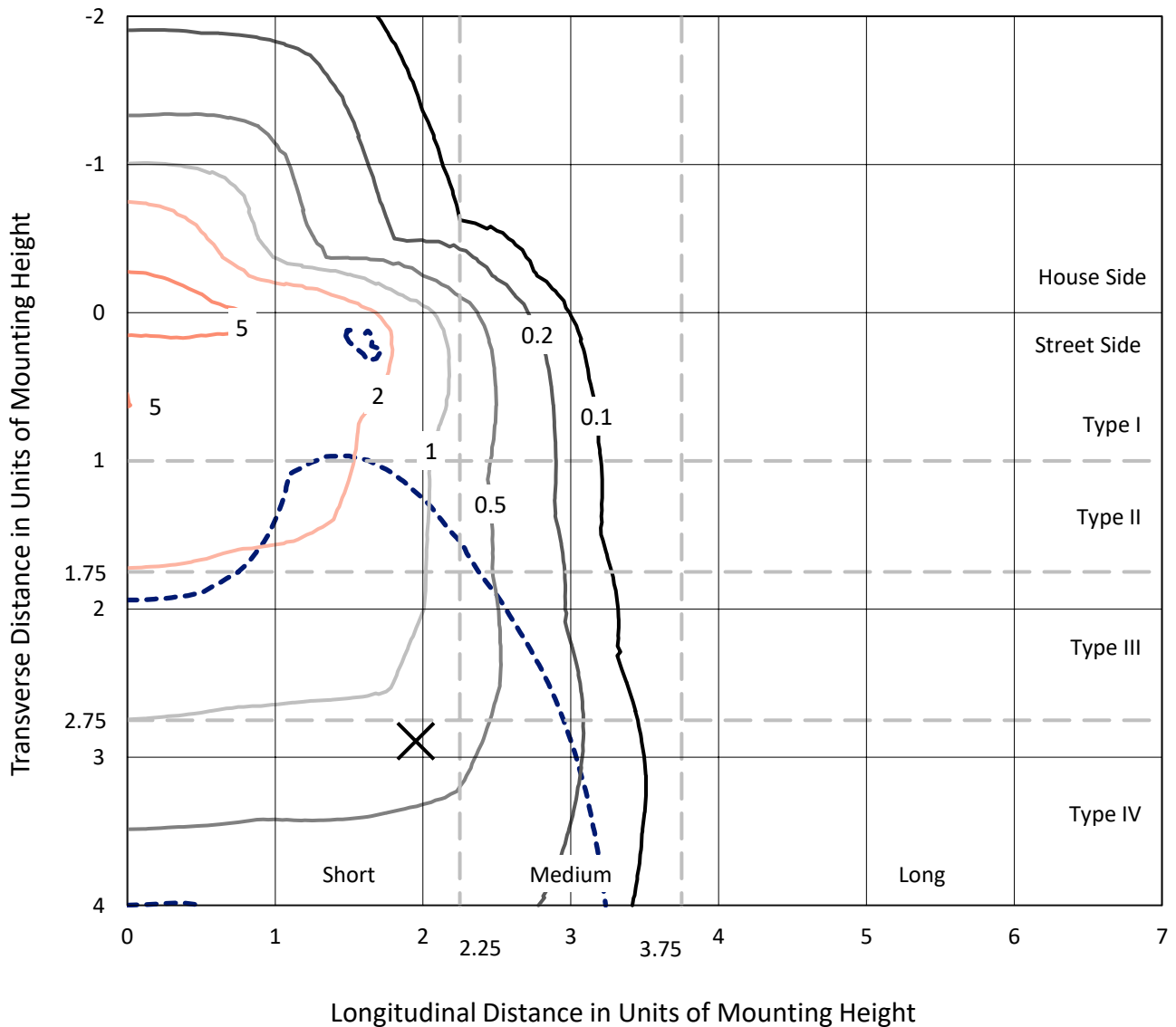
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453725
 CATALOG NUMBER: GALN-SA4D-730-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

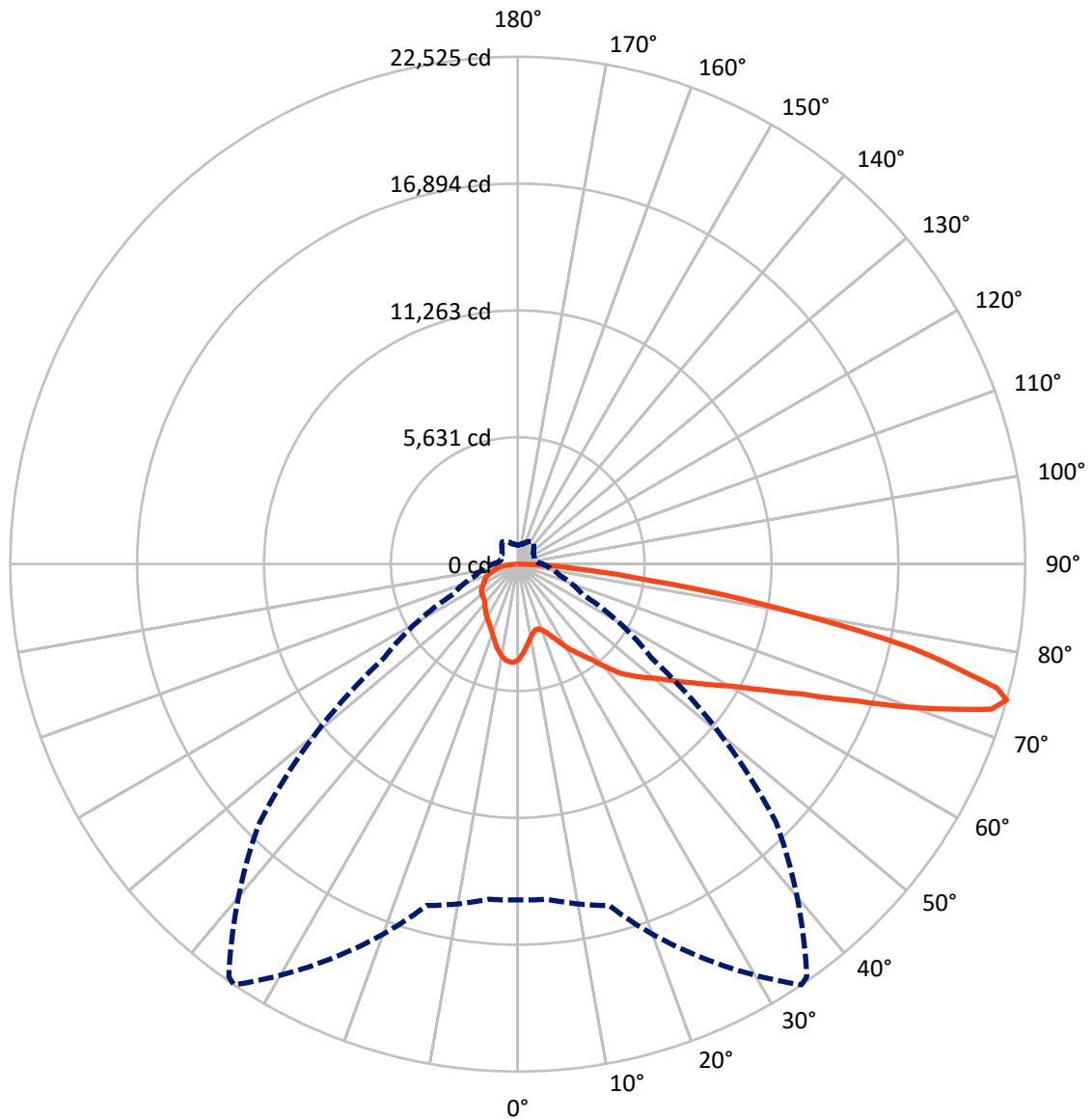
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P453725
CATALOG NUMBER: GALN-SA4D-730-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical



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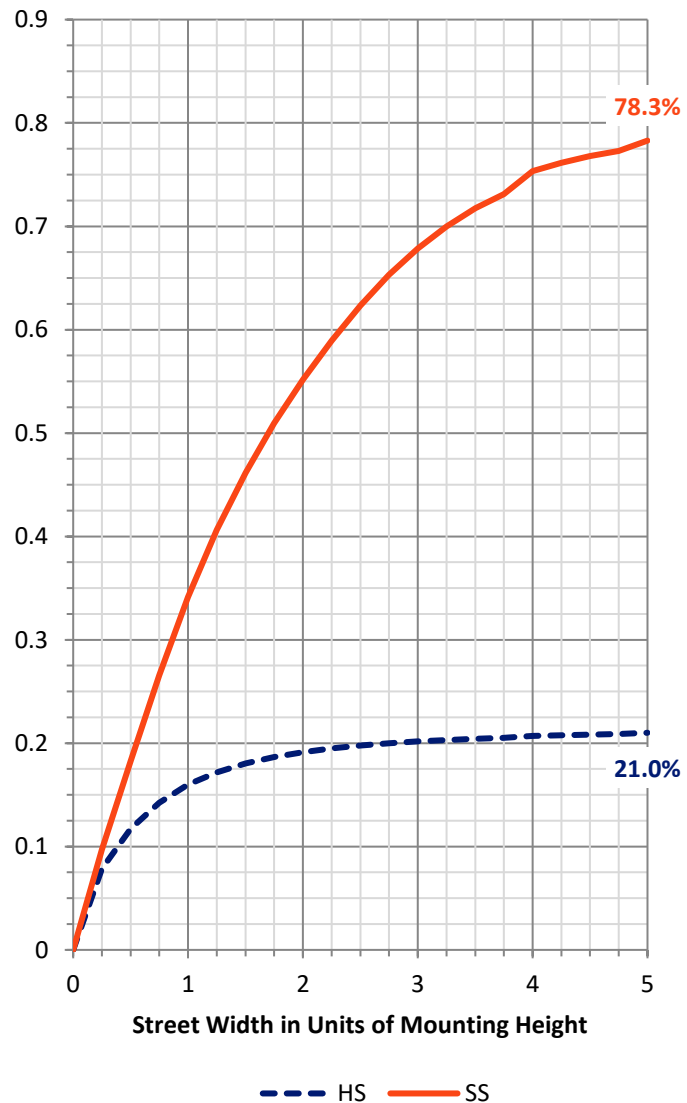
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5918.0	0.0	5918.0
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	21891.0	0.0	21891.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	27809.0	0.0	27809.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.2	1.4
10°-20°	1057.1	3.8
20°-30°	1742.8	6.3
30°-40°	2610.5	9.4
40°-50°	3795.0	13.6
50°-60°	5300.7	19.1
60°-70°	6636.2	23.9
70°-80°	5487.6	19.7
80°-90°	792.9	2.9
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°	27809.0	100.0
0°-180°	27809.0	100.0



REPORT NUMBER: P453725

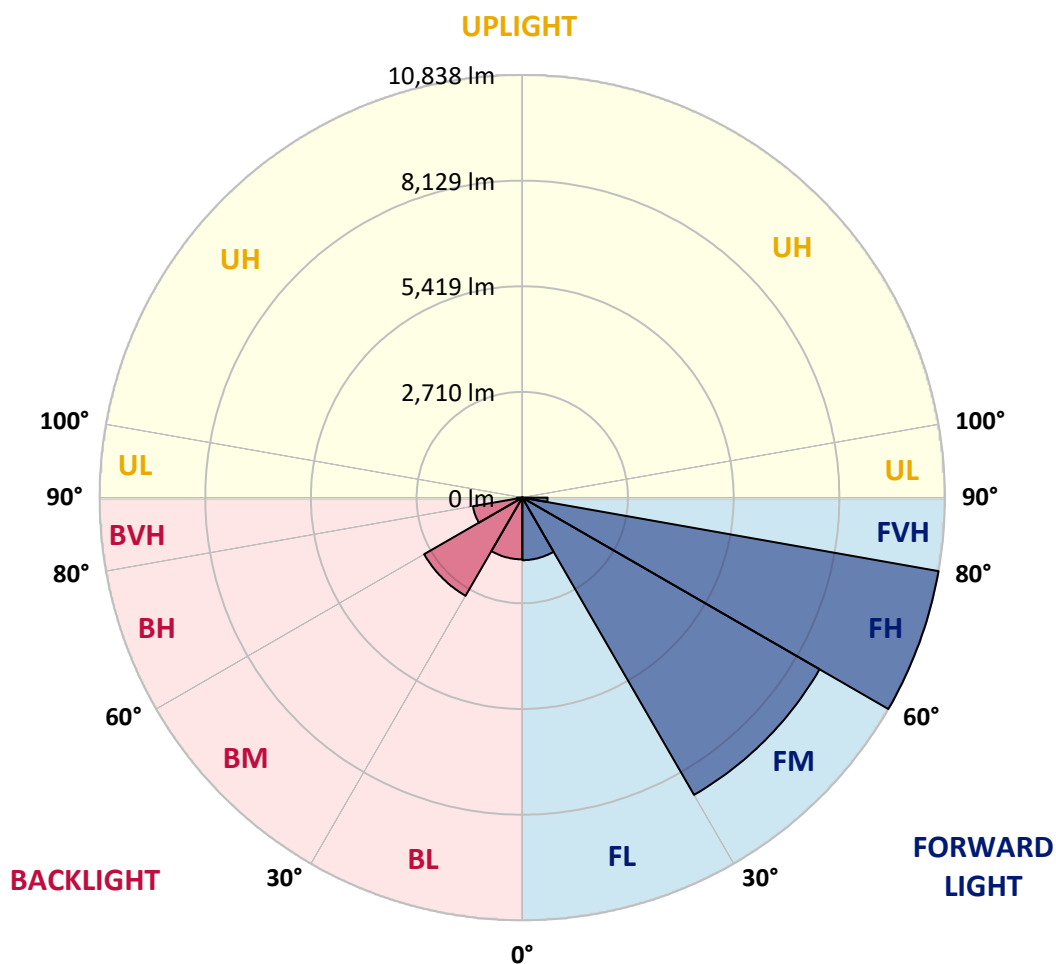
CATALOG NUMBER: GALN-SA4D-730-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1603.1	5.8			
FM	(30°-60°)	8799.9	31.6			
FH	(60°-80°)	10838.5	39.0			G4/12000
FVH	(80°-90°)	649.6	2.3			G4/750
BL	(0°-30°)	1583.0	5.7	B3/2500		
BM	(30°-60°)	2906.3	10.5	B3/5000		
BH	(60°-80°)	1285.3	4.6	B3/2500		G3/2500
BVH	(80°-90°)	143.3	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





REPORT NUMBER: P453725

CATALOG NUMBER: GALN-SA4D-730-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4245.9	4245.9	4245.9	4245.9	4245.9	4245.9	4245.9	4245.9	4245.9	4245.9	4245.9
2.5°	3923.9	3943.9	3954.7	3993.2	4002.5	4014.8	4047.1	4090.3	4145.7	4195.0	4238.2
5°	3597.3	3628.1	3646.6	3680.5	3746.7	3752.9	3839.2	3937.8	4050.2	4155.0	4241.3
7.5°	3287.6	3321.5	3336.9	3398.6	3486.4	3500.2	3626.6	3782.2	3970.1	4128.8	4261.3
10°	3055.0	3071.9	3105.8	3152.1	3256.8	3266.1	3430.9	3638.9	3882.3	4116.5	4295.2
12.5°	2928.7	2937.9	2945.6	2994.9	3098.1	3112.0	3284.6	3520.3	3813.0	4125.7	4350.6
15°	2947.2	2950.2	2916.3	2925.6	3008.8	3028.8	3199.8	3441.7	3769.8	4148.8	4433.8
17.5°	3102.8	3092.0	3008.8	2965.6	3024.2	3033.4	3182.9	3410.9	3749.8	4192.0	4520.1
20°	3347.7	3332.3	3189.0	3093.5	3127.4	3135.1	3238.3	3434.0	3769.8	4262.8	4654.1
22.5°	3652.8	3646.6	3429.4	3313.8	3312.3	3312.3	3366.2	3517.2	3829.9	4359.9	4794.3
25°	4079.5	4047.1	3763.7	3614.2	3572.6	3569.6	3563.4	3654.3	3907.0	4463.1	4960.7
27.5°	4517.0	4461.6	4208.9	3979.4	3890.0	3879.2	3839.2	3848.4	4005.6	4580.2	5150.2
30°	4909.9	4874.4	4637.2	4383.0	4276.7	4252.0	4141.1	4090.3	4170.4	4791.3	5452.2
32.5°	5210.3	5188.7	5003.9	4772.8	4615.6	4611.0	4449.2	4407.6	4427.7	5047.0	5797.3
35°	5453.7	5461.4	5367.4	5167.2	4986.9	4960.7	4852.9	4800.5	4742.0	5416.7	6231.7
37.5°	5786.5	5803.4	5797.3	5624.7	5404.4	5410.6	5385.9	5299.7	5144.1	5829.6	6713.9
40°	6153.1	6165.5	6163.9	6097.7	5982.1	5988.3	5979.1	5880.5	5647.8	6355.0	7250.0
42.5°	6660.0	6601.5	6448.9	6515.2	6583.0	6612.2	6675.4	6581.4	6262.5	6915.7	7753.8
45°	7226.9	7116.0	6770.9	6801.7	7052.9	7108.3	7456.5	7327.1	6929.6	7559.7	8347.0
47.5°	7584.4	7475.0	7183.8	7177.6	7510.4	7564.3	8180.6	8132.8	7536.6	8254.5	9071.0
50°	7903.3	7887.9	7559.7	7638.3	7963.3	8043.5	8969.4	8924.7	8142.1	9074.1	9859.8
52.5°	8376.2	8251.4	7989.5	8151.3	8581.1	8685.9	9752.0	9621.0	8698.2	9798.2	10625.5
55°	8588.8	8559.6	8544.1	8684.3	9274.4	9349.9	10513.0	10212.6	9172.7	10411.4	11207.8
57.5°	9157.3	9103.4	9255.9	9351.4	10090.9	10206.5	11308.0	10830.4	9588.7	10898.2	11491.3
60°	9893.7	9864.4	10004.6	10177.2	11002.9	11178.6	12213.9	11357.3	9923.0	11143.1	11335.7
62.5°	10993.7	10990.6	10964.4	11334.2	12295.5	12457.3	13253.8	11870.3	9975.4	10959.8	10531.5
65°	12571.3	12515.8	12287.8	12691.4	13903.9	14093.4	14336.8	12156.8	9659.5	10018.5	8867.7
67.5°	14221.2	14218.2	14033.3	14557.1	16213.2	16408.9	15691.0	12093.7	8782.9	8115.9	6298.0
70°	15589.3	15523.1	15758.8	17154.5	19163.5	19389.9	16875.7	11349.6	6995.8	5359.7	3742.1
72.5°	15917.4	15920.5	16410.4	19157.3	21996.6	22032.1	17302.4	9198.9	4681.9	2956.4	1871.8
74°	14906.8	14933.0	15692.5	19257.5	22525.1	22364.8	16211.7	7230.0	3165.9	1930.4	1349.6
75°	13606.5	13441.7	14540.2	18590.4	21976.6	21804.1	14934.5	5801.9	2415.7	1542.1	1181.6
77.5°	7274.7	7442.6	9137.3	13873.1	17854.0	17655.2	10126.3	2782.3	1304.9	1073.8	850.4
80°	2589.7	2856.3	4014.8	7259.3	11446.6	11508.3	4832.9	1275.6	918.2	791.9	600.8
82.5°	1056.8	1086.1	1723.9	3221.4	5812.7	5868.1	1973.5	758.0	656.3	545.4	359.0
85°	412.9	425.2	762.6	1448.2	2480.4	2642.1	682.5	400.6	403.6	312.7	183.3
87.5°	138.7	157.1	312.7	482.2	842.7	825.8	198.7	118.6	144.8	135.6	57.0
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°	4245.9	4245.9	4245.9	4245.9	4245.9	4245.9	4245.9	4245.9	4245.9	4245.9	4245.9
2.5°	4259.7	4289.0	4309.0	4330.6	4350.6	4356.8	4352.2	4366.1	4367.6	4369.1	4370.7
5°	4284.4	4324.5	4363.0	4384.5	4393.8	4386.1	4359.9	4346.0	4333.7	4324.5	4327.5
7.5°	4318.3	4375.3	4410.7	4420.0	4395.3	4359.9	4295.2	4244.3	4212.0	4190.4	4188.9
10°	4370.7	4426.1	4455.4	4429.2	4361.4	4275.2	4173.5	4078.0	4005.6	3984.0	3982.4
12.5°	4436.9	4500.1	4498.5	4421.5	4302.9	4148.8	3984.0	3873.1	3774.5	3725.2	3745.2
15°	4523.2	4571.0	4526.3	4387.6	4199.7	3988.6	3785.2	3634.3	3523.3	3471.0	3474.0
17.5°	4623.3	4664.9	4546.3	4327.5	4054.9	3783.7	3548.0	3404.7	3316.9	3278.4	3275.3
20°	4748.1	4760.4	4546.3	4222.8	3868.4	3544.9	3320.0	3219.8	3170.5	3150.5	3156.7
22.5°	4882.2	4857.5	4521.7	4074.9	3623.5	3295.3	3144.4	3099.7	3075.0	3071.9	3075.0
25°	5033.1	4963.8	4470.8	3874.6	3367.7	3079.7	2991.8	2999.5	3004.2	3004.2	3014.9
27.5°	5218.0	5079.3	4386.1	3621.9	3068.9	2879.4	2854.7	2908.6	2933.3	2937.9	2945.6
30°	5461.4	5205.7	4245.9	3306.1	2814.7	2699.1	2742.3	2814.7	2842.4	2859.3	2856.3
32.5°	5751.0	5344.3	4056.4	2990.3	2609.8	2572.8	2625.2	2699.1	2729.9	2739.2	2726.9
35°	6091.5	5501.5	3806.8	2694.5	2431.1	2452.6	2514.3	2537.4	2565.1	2565.1	2571.3
37.5°	6458.2	5627.8	3501.8	2423.4	2292.4	2371.0	2415.7	2394.1	2381.8	2366.4	2374.1
40°	6831.0	5721.8	3105.8	2155.3	2153.8	2286.2	2298.6	2236.9	2187.6	2172.2	2164.5
42.5°	7156.1	5780.3	2748.4	1947.3	2022.8	2203.1	2212.3	2113.7	2035.1	1988.9	1973.5
45°	7539.7	5848.1	2398.7	1774.8	1901.1	2136.8	2159.9	2027.4	1911.9	1814.8	1790.2
47.5°	8065.0	6002.2	2122.9	1640.7	1813.3	2095.2	2127.6	1956.6	1804.0	1677.7	1657.7
50°	8658.2	6213.2	1908.8	1549.8	1745.5	2058.2	2098.3	1884.1	1703.9	1563.7	1548.3
52.5°	9202.0	6327.2	1723.9	1468.2	1679.3	1990.5	2059.8	1831.8	1605.3	1449.7	1435.8
55°	9499.3	6142.4	1542.1	1388.1	1588.4	1902.6	2005.9	1759.4	1509.8	1389.6	1369.6
57.5°	9539.4	5760.3	1377.3	1301.8	1492.8	1794.8	1905.7	1671.5	1448.2	1348.0	1331.1
60°	9229.7	5190.3	1249.4	1230.9	1395.8	1673.1	1793.3	1594.5	1385.0	1301.8	1284.9
62.5°	8459.4	4571.0	1160.1	1166.2	1297.2	1545.2	1710.1	1520.6	1324.9	1251.0	1235.6
65°	7134.5	3772.9	1073.8	1100.0	1209.4	1445.1	1634.6	1458.9	1264.8	1212.4	1198.6
67.5°	4956.1	2723.8	1002.9	1030.7	1126.2	1343.4	1546.8	1392.7	1197.0	1169.3	1147.7
70°	2743.8	1676.2	919.7	952.1	1039.9	1229.4	1448.2	1292.6	1098.4	1086.1	1055.3
72.5°	1442.0	1067.6	825.8	861.2	922.8	1083.0	1297.2	1183.2	1001.4	949.0	909.0
74°	1126.2	875.1	762.6	799.6	841.2	996.8	1207.8	1104.6	932.1	870.4	839.6
75°	981.4	779.5	708.7	756.4	793.4	938.2	1138.5	1049.1	893.5	835.0	807.3
77.5°	693.3	583.9	579.3	636.3	656.3	822.7	1026.0	955.2	796.5	734.9	708.7
80°	486.8	437.5	459.1	494.5	522.3	727.2	952.1	825.8	653.2	580.8	571.6
82.5°	317.4	286.6	328.1	360.5	369.7	536.1	768.8	627.0	476.0	386.7	359.0
85°	146.4	143.3	188.0	183.3	181.8	261.9	456.0	366.7	274.2	204.9	192.6
87.5°	37.0	35.4	46.2	38.5	46.2	40.1	41.6	10.8	1.5	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)