

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: P454534

Luminaire Tested: **GALN-SA5C-827-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454534
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20264 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

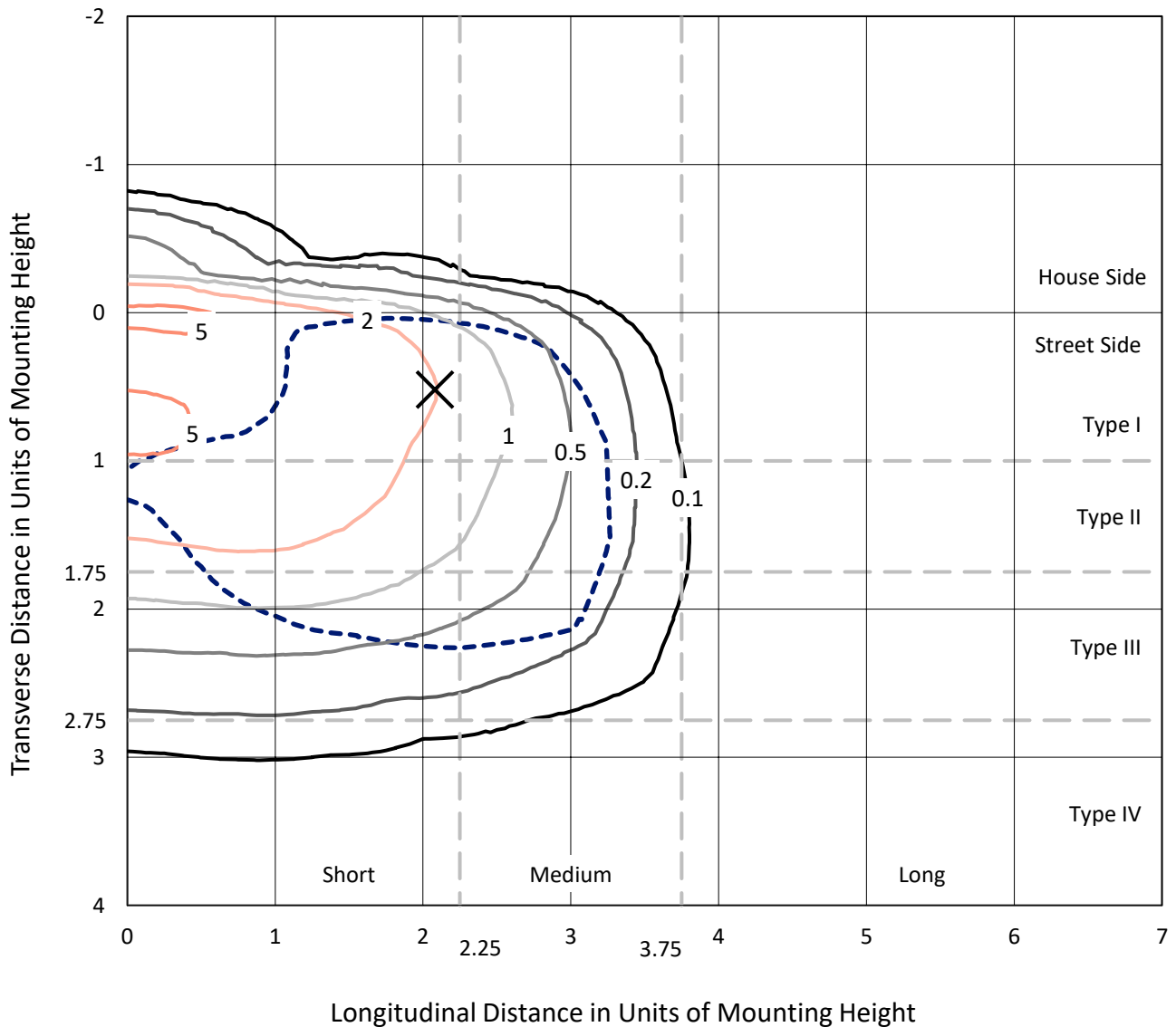
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454534
 CATALOG NUMBER: GALN-SA5C-827-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

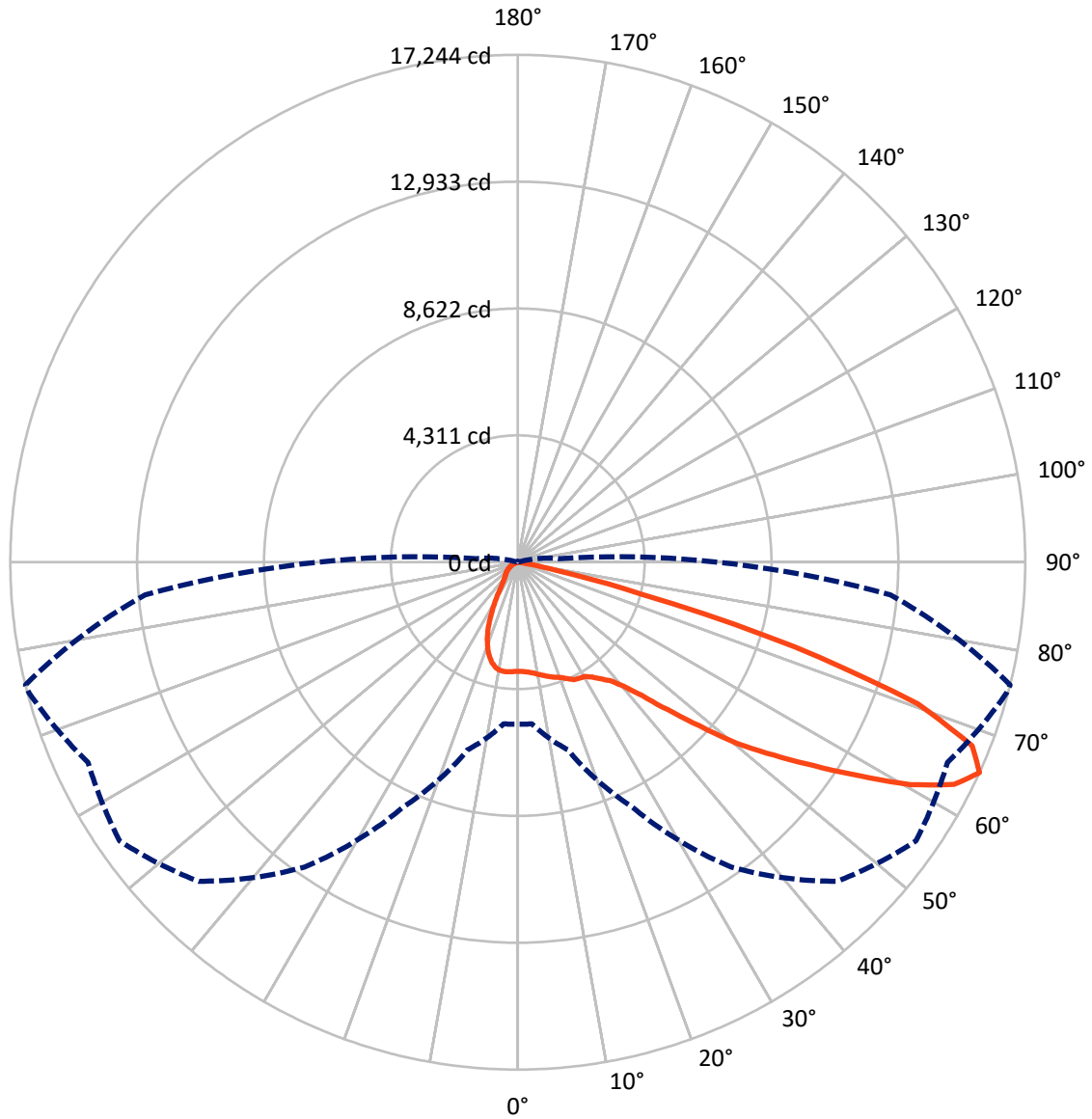
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Short - N/A

REPORT NUMBER: P454534
CATALOG NUMBER: GALN-SA5C-827-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P454534

CATALOG NUMBER: GALN-SA5C-827-U-T3R-HSS

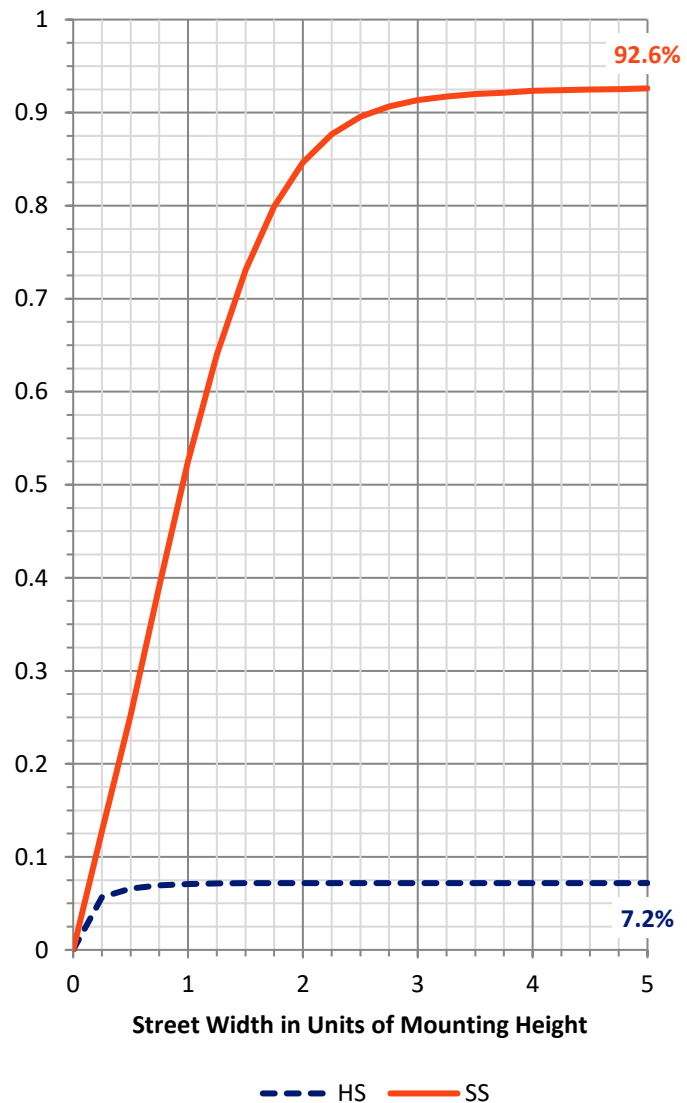
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1463.5	0.0	1463.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	18800.5	0.0	18800.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	20264.0	0.0	20264.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.4	1.5
10°-20°	679.9	3.4
20°-30°	1095.6	5.4
30°-40°	1905.0	9.4
40°-50°	3147.9	15.5
50°-60°	4862.9	24.0
60°-70°	5938.3	29.3
70°-80°	2253.7	11.1
80°-90°	75.2	0.4
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°	20264.0	100.0
0°-180°	20264.0	100.0



REPORT NUMBER: P454534

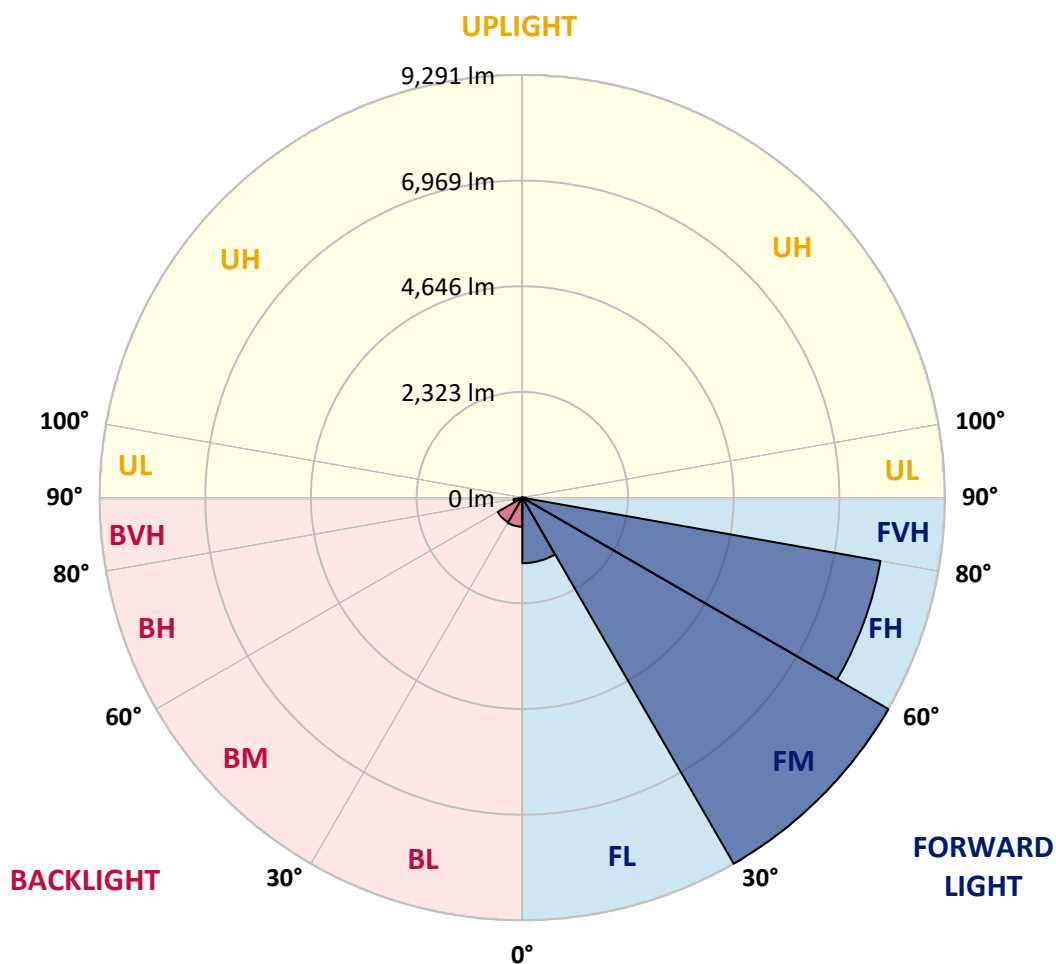
CATALOG NUMBER: GALN-SA5C-827-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1441.5	7.1			
FM (30°-60°)	9291.4	45.9			
FH (60°-80°)	7993.5	39.4			G4/12000
FVH (80°-90°)	74.2	0.4			G1/100
BL (0°-30°)	639.4	3.2	B2/1000		
BM (30°-60°)	624.5	3.1	B1/1000		
BH (60°-80°)	198.6	1.0	B1/500		G1/500
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





REPORT NUMBER: P454534

CATALOG NUMBER: GALN-SA5C-827-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9
2.5°	3542.4	3543.8	3552.4	3573.9	3606.8	3634.0	3656.9	3694.1	3719.8	3722.7	3731.3
5°	3297.8	3280.6	3297.8	3353.6	3403.6	3479.5	3572.4	3665.4	3748.4	3754.1	3794.2
7.5°	3023.1	3037.4	3064.5	3121.8	3216.2	3332.1	3466.6	3632.5	3789.9	3804.2	3882.9
10°	2744.1	2775.5	2819.9	2907.2	3038.8	3189.0	3372.1	3609.6	3855.7	3875.8	4011.7
12.5°	2486.5	2500.9	2555.2	2672.5	2835.6	3047.4	3300.6	3596.8	3928.7	3953.0	4149.0
15°	2289.1	2307.7	2354.9	2460.8	2642.5	2914.3	3242.0	3592.5	4000.2	4034.6	4286.4
17.5°	2251.9	2263.4	2283.4	2354.9	2513.7	2808.5	3189.0	3591.0	4068.9	4110.4	4413.7
20°	2405.0	2395.0	2375.0	2367.8	2455.1	2726.9	3150.4	3602.5	4134.7	4181.9	4548.2
22.5°	2788.4	2801.3	2684.0	2545.2	2516.6	2714.0	3144.7	3656.9	4239.2	4294.9	4698.4
25°	3602.5	3503.8	3320.6	2988.7	2738.4	2792.7	3209.1	3785.6	4360.8	4422.3	4834.3
27.5°	4502.4	4472.4	4187.6	3641.1	3174.7	2958.7	3323.5	3884.3	4400.8	4463.8	4911.6
30°	5386.6	5422.3	5096.1	4492.4	3808.5	3266.3	3430.8	3921.5	4436.6	4502.4	5010.3
32.5°	6206.4	6249.3	5963.1	5365.1	4555.3	3798.5	3615.4	4066.0	4586.8	4654.1	5174.8
35°	6851.6	6857.3	6641.3	6164.9	5370.8	4445.2	4014.5	4319.3	4790.0	4868.7	5349.4
37.5°	7443.9	7435.3	7182.1	6771.5	6050.4	5087.6	4516.7	4611.1	5021.7	5103.3	5601.2
40°	7883.1	7888.9	7807.3	7421.0	6684.2	5681.3	4914.4	4884.4	5410.9	5538.2	5967.4
42.5°	8176.4	8229.4	8269.4	8073.4	7481.1	6412.4	5525.3	5469.5	6086.2	6192.1	6485.3
45°	8413.9	8508.3	8708.6	8698.6	8246.5	7309.4	6363.7	6249.3	7043.3	7156.3	7144.9
47.5°	8587.0	8682.9	9014.8	9215.1	8966.2	8179.3	7418.2	7319.4	8186.4	8309.5	7873.1
50°	8675.7	8790.2	9213.7	9601.4	9528.4	9017.7	8619.9	8625.7	9567.1	9685.8	8717.2
52.5°	8468.3	8617.1	9319.6	10017.7	10159.4	9820.3	9745.9	9934.8	10796.0	10897.6	9479.8
55°	7805.9	7993.3	9175.1	10372.5	10890.5	10767.4	11024.9	11312.5	12139.5	12205.3	10262.4
57.5°	7386.7	7585.5	8748.7	10674.4	11768.9	11957.8	12365.5	12575.8	13525.8	13693.2	11160.9
60°	7033.3	7189.2	8398.2	10738.8	12661.7	13414.2	13810.5	14028.0	15236.9	15345.6	12149.5
62.5°	6445.3	6624.1	7805.9	10289.6	13110.9	14580.2	15401.4	15304.2	16560.3	16636.1	12756.1
65°	5499.6	5515.3	6604.1	9160.7	12647.3	15337.1	16518.8	16111.1	17192.7	17244.2	12708.9
67.5°	4104.7	4256.3	5080.4	7200.7	10683.0	14690.4	16880.8	16132.5	16793.5	16650.4	11700.2
70°	2643.9	2759.8	3443.7	4993.1	7702.9	12259.6	15680.4	15026.6	14739.0	14421.4	9577.1
72.5°	1220.4	1369.2	2045.9	2852.8	4568.2	8733.0	12728.9	12208.1	10608.6	9824.6	6087.6
75°	532.2	569.4	1010.1	1505.1	2141.8	4618.3	8392.5	7578.4	4791.4	4376.5	2436.5
77.5°	324.8	349.1	529.4	806.9	841.2	1759.8	4521.0	3306.3	1480.8	1306.2	661.0
80°	220.3	247.5	384.9	422.1	287.6	490.7	1696.8	882.7	299.0	286.1	141.6
82.5°	107.3	135.9	284.7	236.1	124.5	157.4	493.6	188.9	87.3	81.5	50.1
85°	15.7	27.2	160.2	154.5	55.8	37.2	87.3	47.2	30.0	28.6	22.9
87.5°	0.0	0.0	54.4	24.3	5.7	5.7	10.0	10.0	11.4	10.0	11.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P454534

CATALOG NUMBER: GALN-SA5C-827-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9
2.5°	3735.5	3742.7	3715.5	3676.9	3635.4	3593.9	3535.2	3482.3	3450.8	3469.4	3423.7
5°	3802.8	3797.1	3725.5	3608.2	3452.3	3264.8	3078.9	2920.0	2868.5	2791.3	2782.7
7.5°	3895.8	3880.0	3728.4	3459.4	3107.5	2755.5	2412.2	2184.7	2054.5	1944.3	1947.2
10°	4026.0	3980.2	3695.5	3197.6	2618.2	2087.4	1649.6	1349.1	1219.0	1177.5	1144.6
12.5°	4160.5	4071.8	3603.9	2844.2	2038.7	1426.4	1002.9	819.8	739.7	713.9	711.1
15°	4280.6	4140.4	3443.7	2419.3	1482.2	911.4	683.9	623.8	613.8	615.2	613.8
17.5°	4399.4	4194.8	3221.9	1968.6	1007.2	653.8	588.0	573.7	578.0	583.7	582.3
20°	4498.1	4206.2	2938.6	1502.2	712.5	573.7	552.2	549.4	553.7	558.0	558.0
22.5°	4605.4	4214.8	2602.4	1040.1	582.3	533.6	522.2	522.2	527.9	533.6	535.1
25°	4685.5	4167.6	2200.4	746.8	513.6	495.0	489.3	490.7	496.5	499.3	497.9
27.5°	4698.4	4034.6	1774.1	572.3	466.4	447.8	442.1	447.8	440.7	444.9	442.1
30°	4709.8	3865.7	1342.0	482.1	423.5	394.9	386.3	377.7	372.0	364.8	363.4
32.5°	4745.6	3666.9	980.0	433.5	383.4	352.0	331.9	307.6	289.0	283.3	281.8
35°	4761.4	3427.9	719.6	394.9	347.7	313.3	277.6	243.2	216.0	206.0	213.2
37.5°	4821.4	3196.2	558.0	366.3	316.2	273.3	227.5	184.6	158.8	153.1	155.9
40°	4944.5	2944.4	467.8	341.9	289.0	236.1	180.3	138.8	121.6	115.9	114.5
42.5°	5141.9	2694.0	416.3	319.0	261.8	198.9	141.6	108.7	94.4	90.1	90.1
45°	5382.3	2453.6	380.6	294.7	233.2	160.2	111.6	87.3	78.7	75.8	75.8
47.5°	5698.5	2243.3	350.5	270.4	201.7	127.3	90.1	75.8	70.1	71.5	73.0
50°	6018.9	2087.4	317.6	243.2	166.0	104.4	77.3	67.2	65.8	67.2	67.2
52.5°	6260.7	1995.8	273.3	206.0	130.2	87.3	68.7	63.0	61.5	58.7	58.7
55°	6586.9	1975.8	217.5	167.4	103.0	73.0	61.5	57.2	52.9	50.1	48.6
57.5°	7006.1	1998.7	167.4	130.2	80.1	60.1	54.4	47.2	41.5	35.8	35.8
60°	7266.5	1947.2	130.2	100.1	58.7	48.6	41.5	34.3	27.2	22.9	21.5
62.5°	7183.5	1729.7	103.0	74.4	41.5	35.8	27.2	22.9	15.7	11.4	10.0
65°	6755.7	1396.4	83.0	51.5	30.0	21.5	14.3	14.3	7.2	1.4	0.0
67.5°	5913.1	1034.4	65.8	34.3	17.2	10.0	7.2	4.3	0.0	0.0	0.0
70°	4812.9	746.8	51.5	21.5	10.0	7.2	2.9	1.4	0.0	0.0	0.0
72.5°	3056.0	427.8	40.1	12.9	7.2	2.9	0.0	0.0	0.0	0.0	0.0
75°	1181.8	167.4	27.2	8.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	334.8	78.7	15.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	87.3	34.3	8.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	41.5	14.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.3	5.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.4	1.4	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)