

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: P453243

Luminaire Tested: **GALN-SA4B-730-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453243
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16958 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

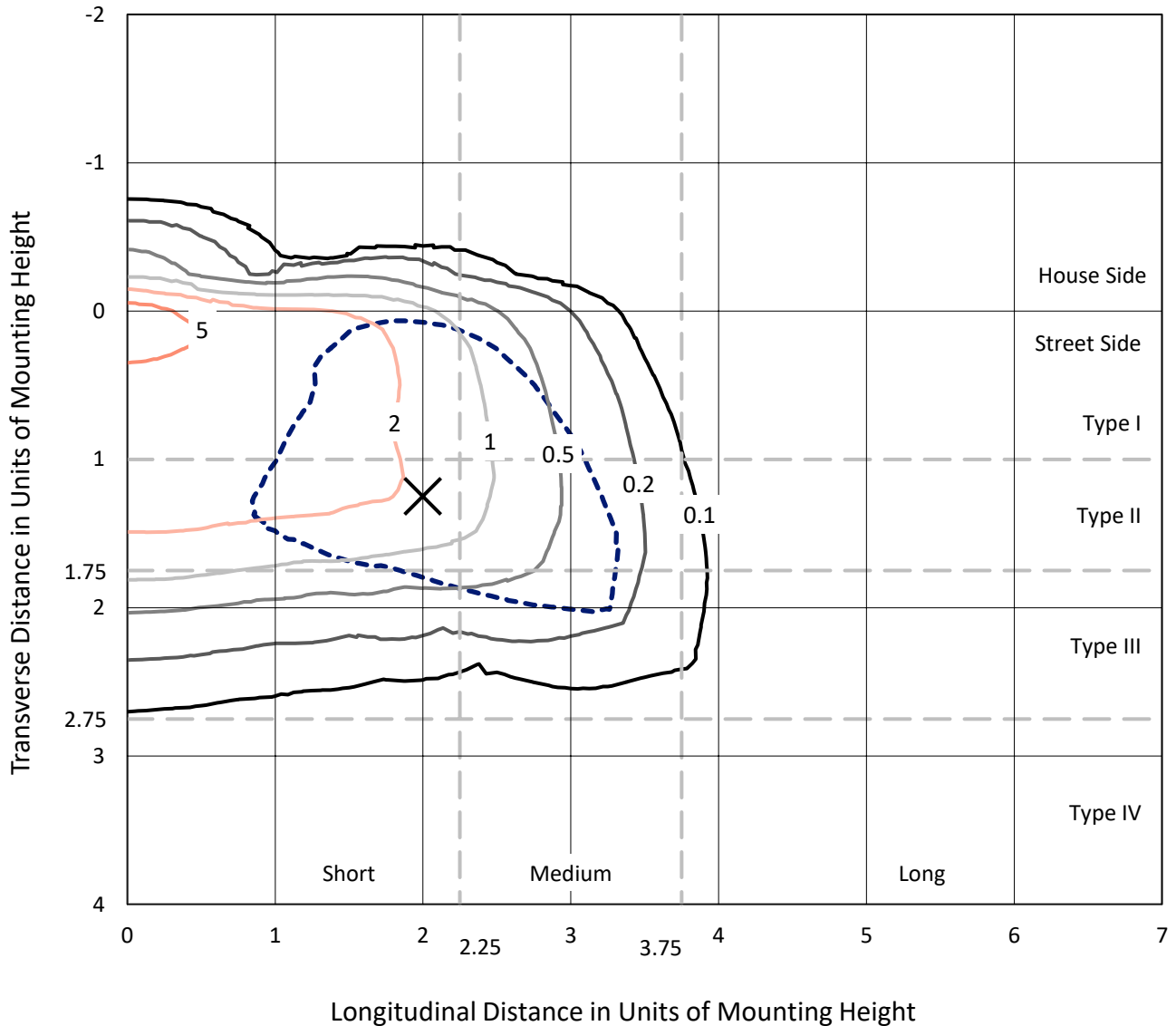
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453243
 CATALOG NUMBER: GALN-SA4B-730-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

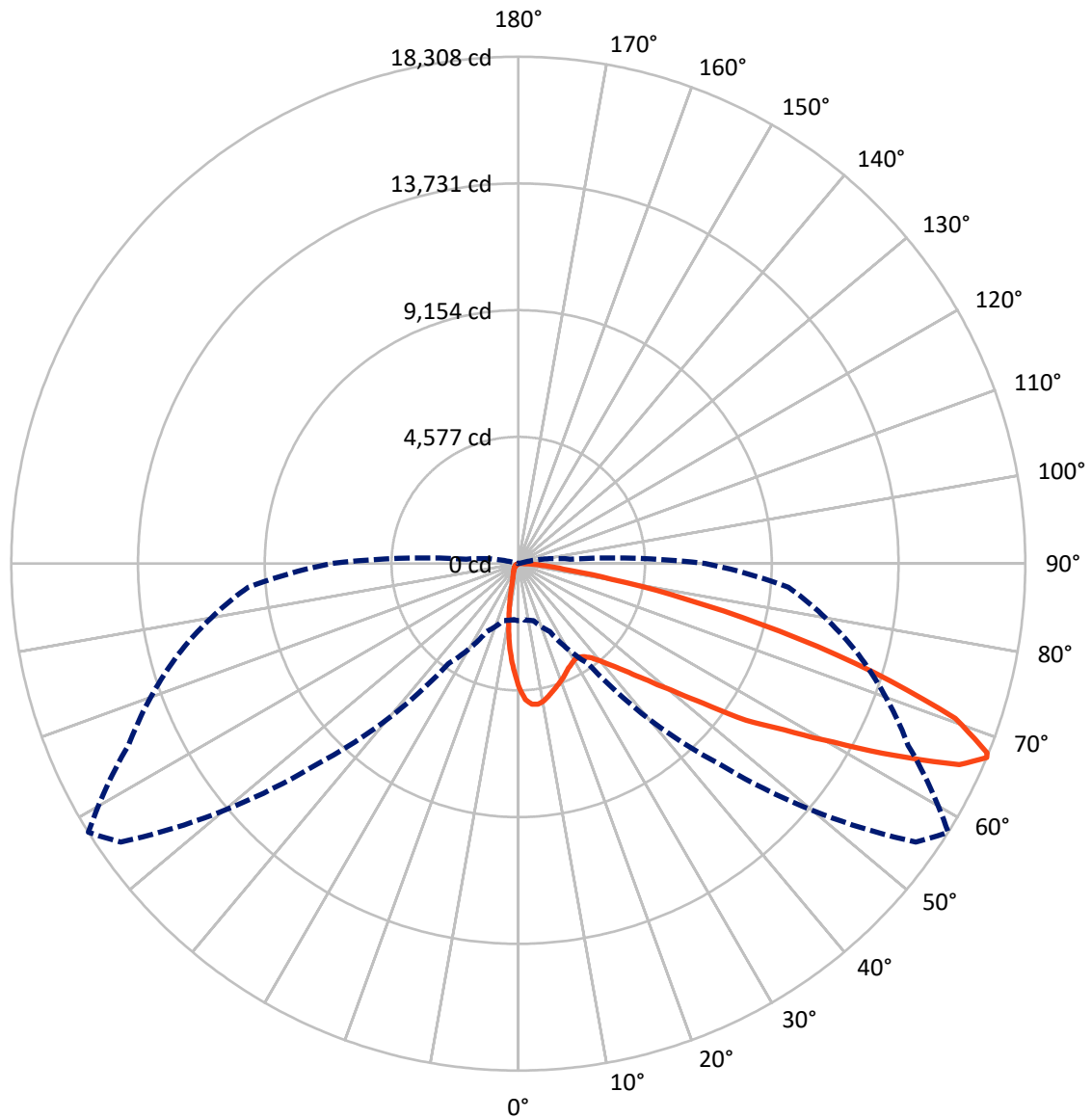
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type III - Short - N/A

REPORT NUMBER: P453243
CATALOG NUMBER: GALN-SA4B-730-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P453243

CATALOG NUMBER: GALN-SA4B-730-U-SL3-HSS

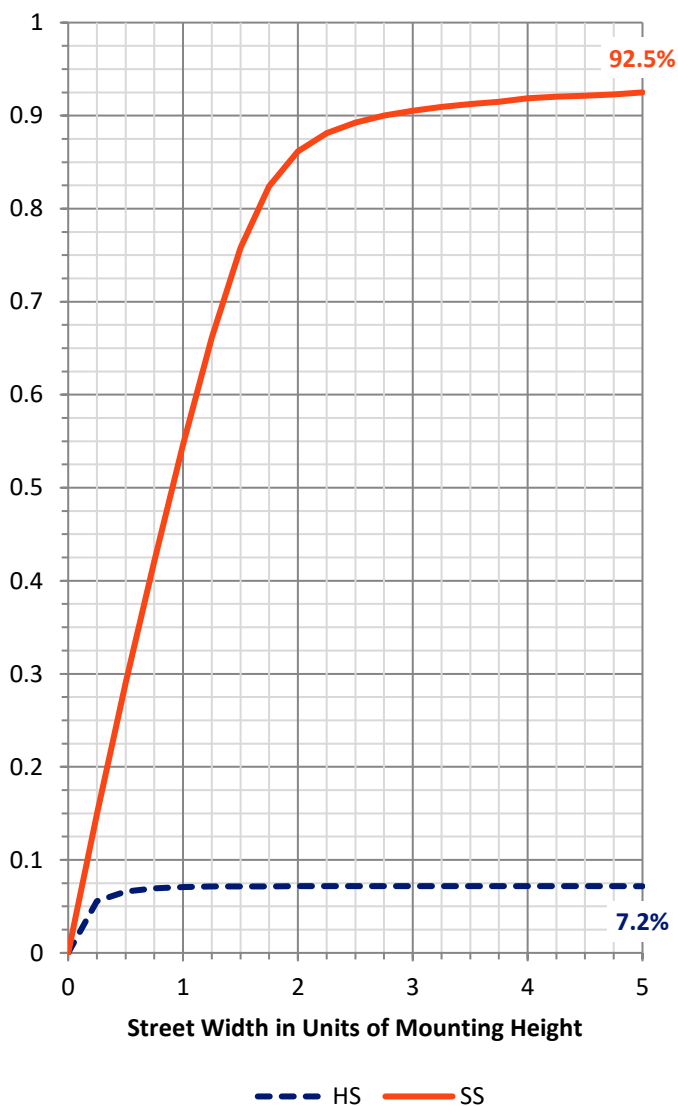
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1223.8	0.0	1223.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	15734.2	0.0	15734.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	16958.0	0.0	16958.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.8	2.2
10°-20°	787.9	4.6
20°-30°	1067.6	6.3
30°-40°	1480.7	8.7
40°-50°	2361.6	13.9
50°-60°	4082.2	24.1
60°-70°	4663.1	27.5
70°-80°	1944.1	11.5
80°-90°	206.1	1.2
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°	16958.0	100.0
0°-180°	16958.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453243

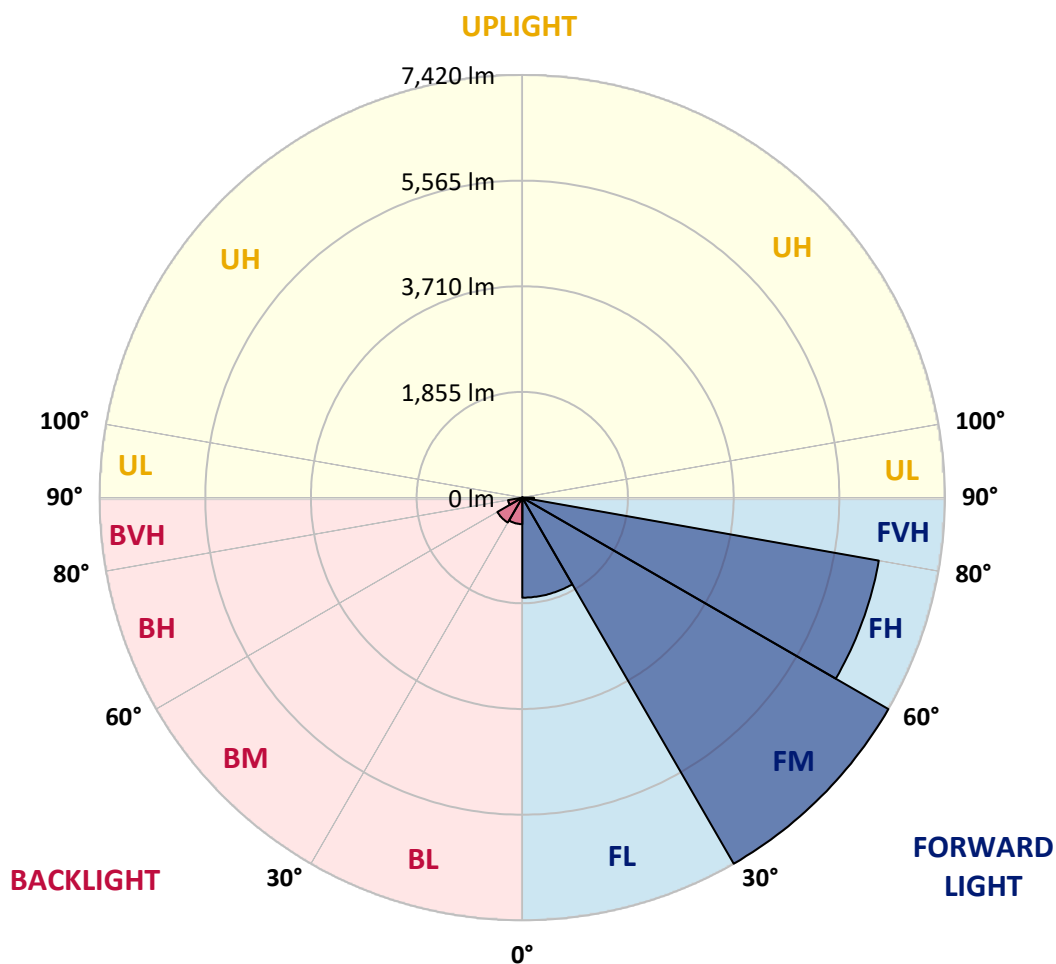
CATALOG NUMBER: GALN-SA4B-730-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1755.6	10.4			
FM (30°-60°)	7419.8	43.8			
FH (60°-80°)	6354.2	37.5			G3/7500
FVH (80°-90°)	204.6	1.2			G2/225
BL (0°-30°)	464.7	2.7	B1/500		
BM (30°-60°)	504.6	3.0	B1/1000		
BH (60°-80°)	253.0	1.5	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-G3

Type III Short





REPORT NUMBER: P453243

CATALOG NUMBER: GALN-SA4B-730-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4495.4	4495.4	4495.4	4495.4	4495.4	4495.4	4495.4	4495.4	4495.4	4495.4	4495.4
2.5°	5217.3	5225.2	5195.7	5171.9	5110.7	5045.0	4957.8	4911.3	4832.0	4694.9	4543.0
5°	5339.6	5349.8	5345.3	5339.6	5315.8	5252.4	5141.3	5100.5	4983.8	4760.6	4486.3
7.5°	5067.7	5105.1	5109.6	5153.8	5195.7	5201.4	5159.5	5128.9	5021.2	4759.4	4385.5
10°	4707.3	4732.2	4768.5	4819.5	4920.4	5004.2	5045.0	5040.5	4978.2	4724.3	4267.6
12.5°	4343.6	4357.2	4412.7	4499.9	4623.5	4766.2	4875.0	4896.6	4897.7	4682.4	4169.0
15°	4030.8	4025.1	4068.2	4169.0	4342.4	4521.5	4716.4	4750.4	4804.8	4641.6	4077.3
17.5°	3763.4	3792.8	3799.6	3910.7	4070.5	4302.8	4550.9	4611.0	4719.8	4606.5	4001.3
20°	3597.9	3613.8	3628.5	3690.8	3834.8	4079.5	4395.7	4478.4	4640.5	4574.7	3916.3
22.5°	3549.2	3559.4	3546.9	3566.2	3668.2	3885.7	4226.8	4336.8	4564.5	4545.3	3847.2
25°	3586.6	3596.8	3567.3	3544.7	3579.8	3728.2	4063.7	4197.4	4503.3	4539.6	3795.1
27.5°	3677.2	3696.5	3655.7	3614.9	3594.5	3643.2	3935.6	4090.9	4461.4	4566.8	3771.3
30°	3818.9	3830.2	3799.6	3749.8	3703.3	3654.6	3868.7	4017.2	4450.1	4630.3	3769.0
32.5°	3973.0	3996.8	3979.8	3946.9	3886.9	3771.3	3888.0	4019.5	4477.3	4722.1	3797.4
35°	4163.4	4190.6	4206.4	4199.6	4122.6	3978.7	4010.4	4121.5	4549.8	4890.9	3874.4
37.5°	4350.4	4374.2	4463.7	4494.3	4426.3	4290.3	4248.4	4322.0	4709.6	5111.9	4013.8
40°	4564.5	4596.3	4722.1	4838.8	4805.9	4663.1	4586.1	4647.3	4954.4	5445.0	4277.8
42.5°	4769.6	4826.3	5017.8	5224.1	5254.7	5094.9	5043.9	5064.3	5317.0	5924.4	4646.1
45°	5060.9	5114.1	5361.2	5641.1	5785.0	5660.3	5608.2	5604.8	5814.5	6598.6	5243.3
47.5°	5481.3	5528.9	5820.1	6096.6	6352.7	6369.7	6271.1	6305.1	6440.0	7387.3	5975.4
50°	5996.9	6109.1	6300.6	6588.4	6930.7	7207.2	7237.8	7192.4	7308.0	8300.7	6854.7
52.5°	6745.9	6789.0	6964.7	7201.5	7602.6	8071.8	8435.6	8373.2	8337.0	9171.0	7743.2
55°	7304.6	7362.4	7635.5	7960.7	8548.9	9167.6	9956.3	9977.8	9520.0	10007.3	8612.3
57.5°	7135.8	7224.2	7637.8	8291.6	9584.6	10715.6	11302.6	11317.3	10614.7	10819.8	9593.7
60°	6268.9	6310.8	6903.5	7776.0	9673.0	12392.7	13212.0	13093.0	11728.6	11728.6	10460.6
62.5°	4445.5	4511.3	4991.8	6275.7	8735.8	12975.2	15498.8	15252.9	13263.0	12597.8	10977.3
65°	2840.9	2777.5	3095.9	3961.7	6508.0	12115.1	17489.8	17504.6	14706.7	12945.7	10695.2
67°	2057.9	2033.0	2124.8	2708.4	4412.7	10184.1	17531.8	18308.0	15536.2	12725.9	9793.1
67.5°	1882.2	1901.5	1968.4	2443.2	4009.3	9267.3	17341.4	18260.4	15723.2	12593.3	9466.8
70°	1426.7	1393.8	1466.4	1728.1	2403.5	5846.2	14917.5	16747.6	15490.9	11277.6	7564.1
72.5°	1049.3	1045.9	1146.8	1413.1	1850.5	3114.0	11198.3	13428.4	12655.6	8587.4	4762.8
75°	708.3	740.0	900.9	1180.8	1677.1	2019.4	7634.4	9742.1	8785.7	4876.2	1946.8
77.5°	403.4	405.7	580.2	948.5	1506.0	1625.0	4523.7	6206.5	4650.7	1621.6	577.9
80°	174.5	191.5	287.8	689.0	1248.8	1439.2	2593.9	3410.9	1881.1	343.4	187.0
82.5°	64.6	75.9	126.9	423.8	911.1	1185.3	1567.2	1628.4	638.0	121.3	116.7
85°	0.0	2.3	46.5	198.3	474.8	529.2	1047.1	965.5	282.2	57.8	75.9
87.5°	0.0	0.0	0.0	20.4	62.3	197.2	325.2	362.6	68.0	20.4	18.1
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: P453243

CATALOG NUMBER: GALN-SA4B-730-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4495.4	4495.4	4495.4	4495.4	4495.4	4495.4	4495.4	4495.4	4495.4	4495.4	4495.4
2.5°	4461.4	4387.8	4203.0	4018.3	3881.2	3766.8	3594.5	3500.5	3450.6	3376.9	3381.5
5°	4349.2	4199.6	3874.4	3537.9	3265.9	3000.7	2683.4	2555.4	2447.7	2386.5	2345.7
7.5°	4182.6	3961.7	3480.1	3031.3	2613.2	2149.7	1801.8	1569.5	1413.1	1355.3	1299.8
10°	4000.2	3706.7	3080.0	2457.9	1877.7	1399.5	1104.9	891.8	815.9	745.6	752.4
12.5°	3831.4	3474.4	2712.9	1940.0	1315.6	889.6	693.5	606.3	581.3	573.4	573.4
15°	3693.1	3252.3	2318.5	1458.4	902.0	639.1	555.3	531.5	522.4	520.1	520.1
17.5°	3545.8	3041.5	1962.7	1077.7	656.1	534.9	506.5	490.7	487.3	485.0	485.0
20°	3414.3	2829.6	1625.0	802.3	530.3	481.6	463.5	453.3	449.9	447.6	448.7
22.5°	3289.7	2641.5	1307.7	606.3	466.9	438.5	420.4	410.2	403.4	397.8	398.9
25°	3178.6	2460.2	1051.6	496.3	420.4	395.5	377.4	362.6	347.9	341.1	340.0
27.5°	3100.4	2301.5	819.3	425.0	378.5	351.3	328.6	310.5	291.2	281.0	278.8
30°	3035.8	2140.6	648.2	375.1	336.6	310.5	282.2	256.1	235.7	225.5	221.0
32.5°	2993.9	1987.6	511.1	334.3	301.4	269.7	238.0	211.9	189.2	179.0	176.8
35°	2987.1	1859.6	418.2	300.3	269.7	235.7	202.8	174.5	155.2	145.0	142.8
37.5°	3035.8	1761.0	350.2	273.1	243.6	206.2	170.0	143.9	126.9	119.0	117.9
40°	3166.2	1698.7	303.7	250.4	219.8	179.0	145.0	122.4	105.4	97.5	97.5
42.5°	3414.3	1700.9	273.1	228.9	196.0	153.0	123.5	102.0	87.3	80.5	78.2
45°	3801.9	1778.0	247.0	207.4	173.4	132.6	105.4	83.9	69.1	63.5	63.5
47.5°	4320.9	1931.0	224.4	185.8	153.0	113.3	89.5	68.0	55.5	49.9	49.9
50°	4999.7	2176.9	205.1	167.7	136.0	97.5	72.5	55.5	43.1	38.5	37.4
52.5°	5709.1	2480.6	182.4	151.8	116.7	82.7	58.9	43.1	32.9	29.5	28.3
55°	6492.1	2777.5	160.9	136.0	95.2	69.1	46.5	34.0	23.8	20.4	20.4
57.5°	7282.0	3068.7	134.9	113.3	74.8	51.0	36.3	24.9	15.9	12.5	12.5
60°	7950.5	3162.8	114.5	91.8	56.7	36.3	26.1	15.9	9.1	5.7	5.7
62.5°	8042.3	2845.5	96.3	70.3	40.8	24.9	13.6	9.1	3.4	2.3	2.3
65°	7543.7	2311.7	80.5	53.3	27.2	12.5	5.7	3.4	1.1	0.0	0.0
67°	6759.5	1874.3	65.7	39.7	19.3	7.9	3.4	1.1	0.0	0.0	0.0
67.5°	6559.0	1787.1	63.5	37.4	17.0	6.8	2.3	1.1	0.0	0.0	0.0
70°	5147.0	1338.3	45.3	22.7	10.2	4.5	0.0	0.0	0.0	0.0	0.0
72.5°	3199.0	757.0	32.9	13.6	6.8	2.3	0.0	0.0	0.0	0.0	0.0
75°	1209.1	265.2	22.7	9.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	376.2	100.9	13.6	6.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	126.9	38.5	9.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	78.2	15.9	5.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	48.7	6.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.1	2.3	1.1	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)