

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: P454652

Luminaire Tested: **GALN-SA5D-730-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25406 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

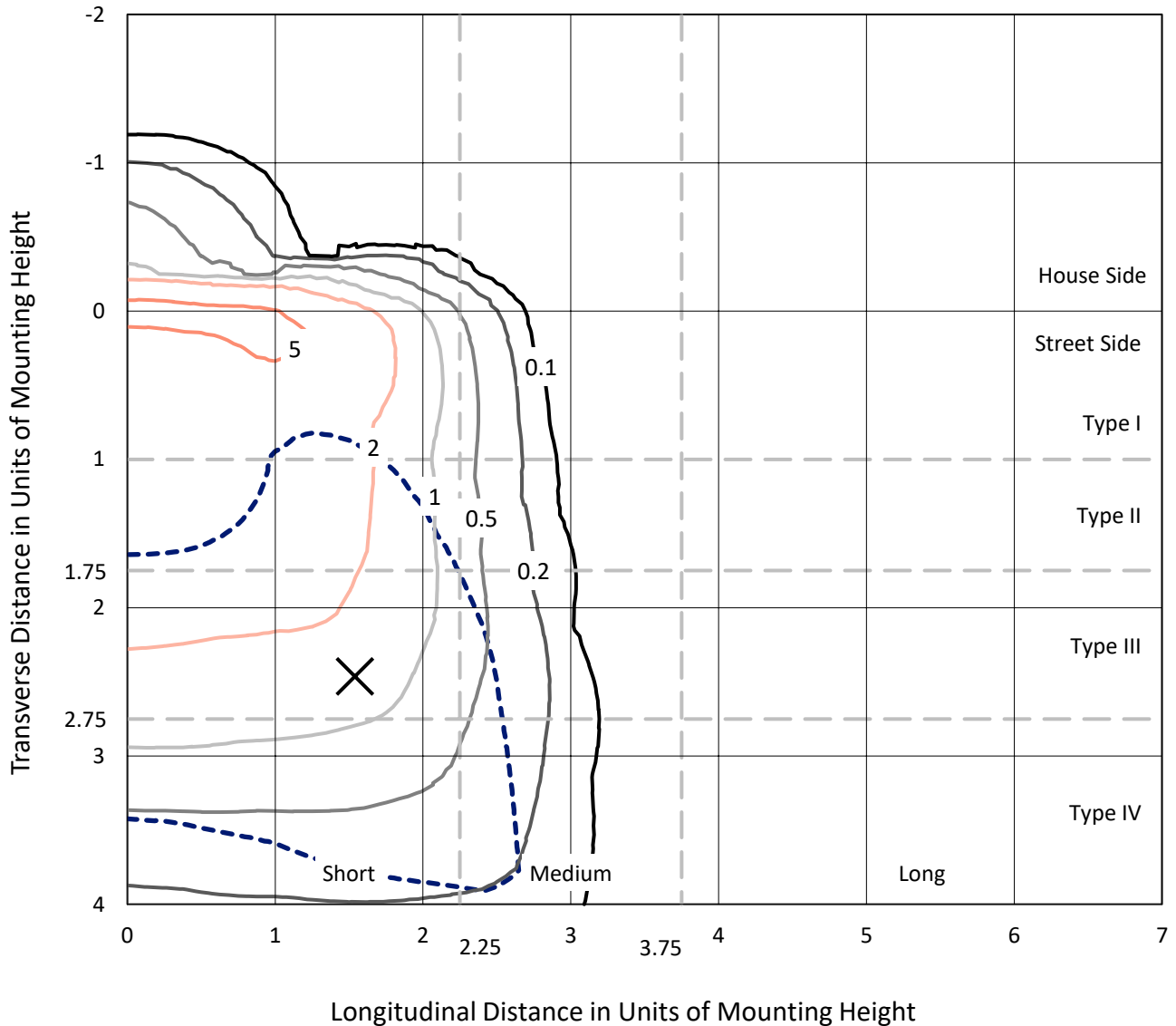
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

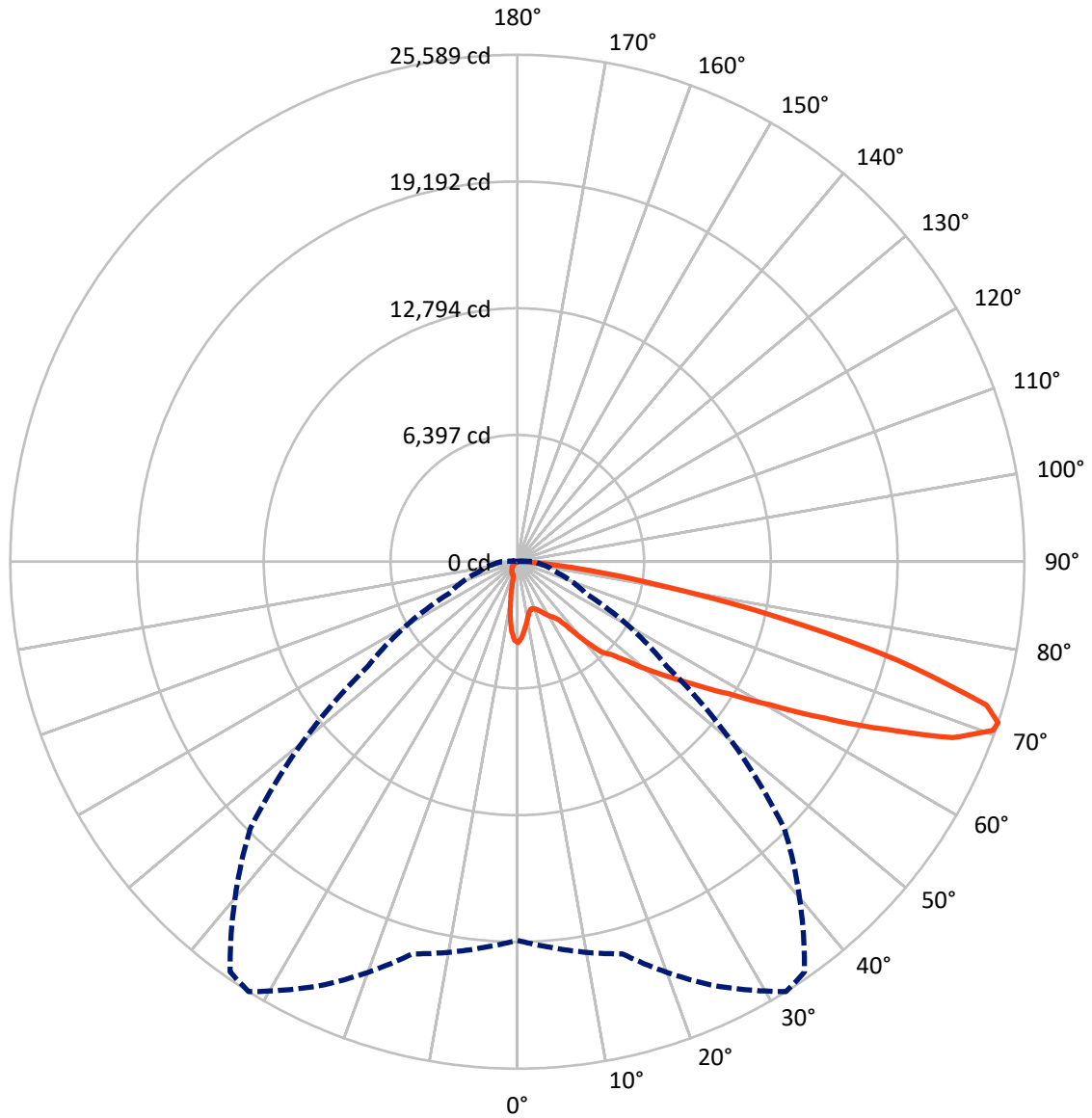
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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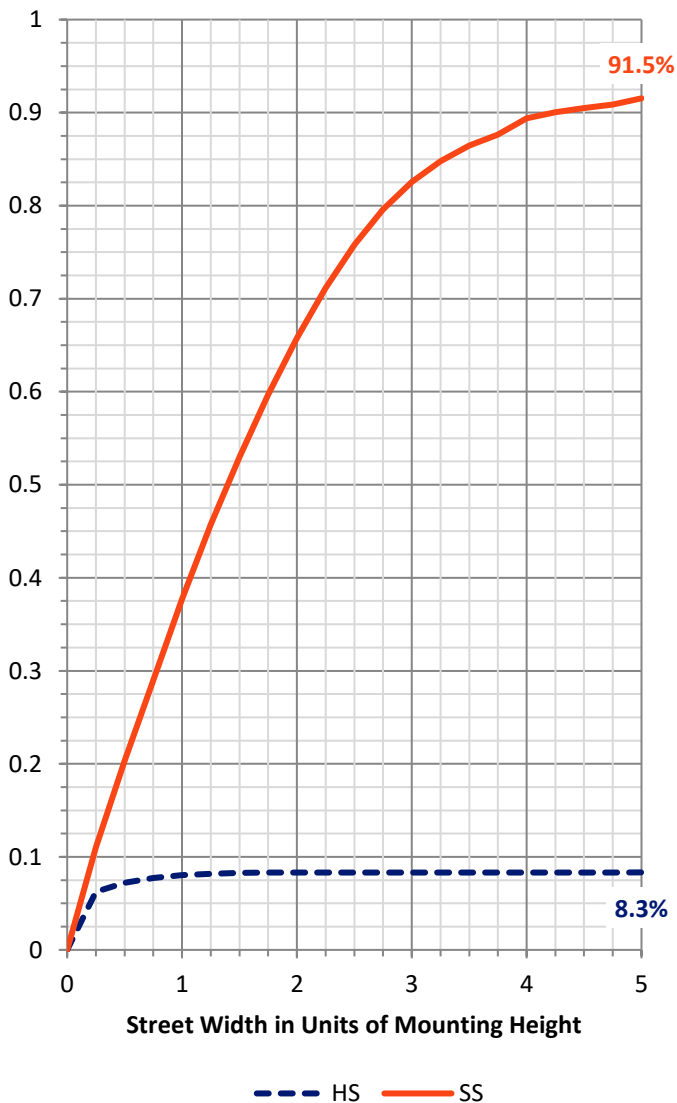
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2128.0	0.0	2128.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	23278.0	0.0	23278.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	25406.0	0.0	25406.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.2	1.3
10°-20°	721.0	2.8
20°-30°	1121.7	4.4
30°-40°	1868.7	7.4
40°-50°	3476.2	13.7
50°-60°	5581.1	22.0
60°-70°	7506.9	29.5
70°-80°	4453.9	17.5
80°-90°	344.3	1.4
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°	25406.0	100.0
0°-180°	25406.0	100.0



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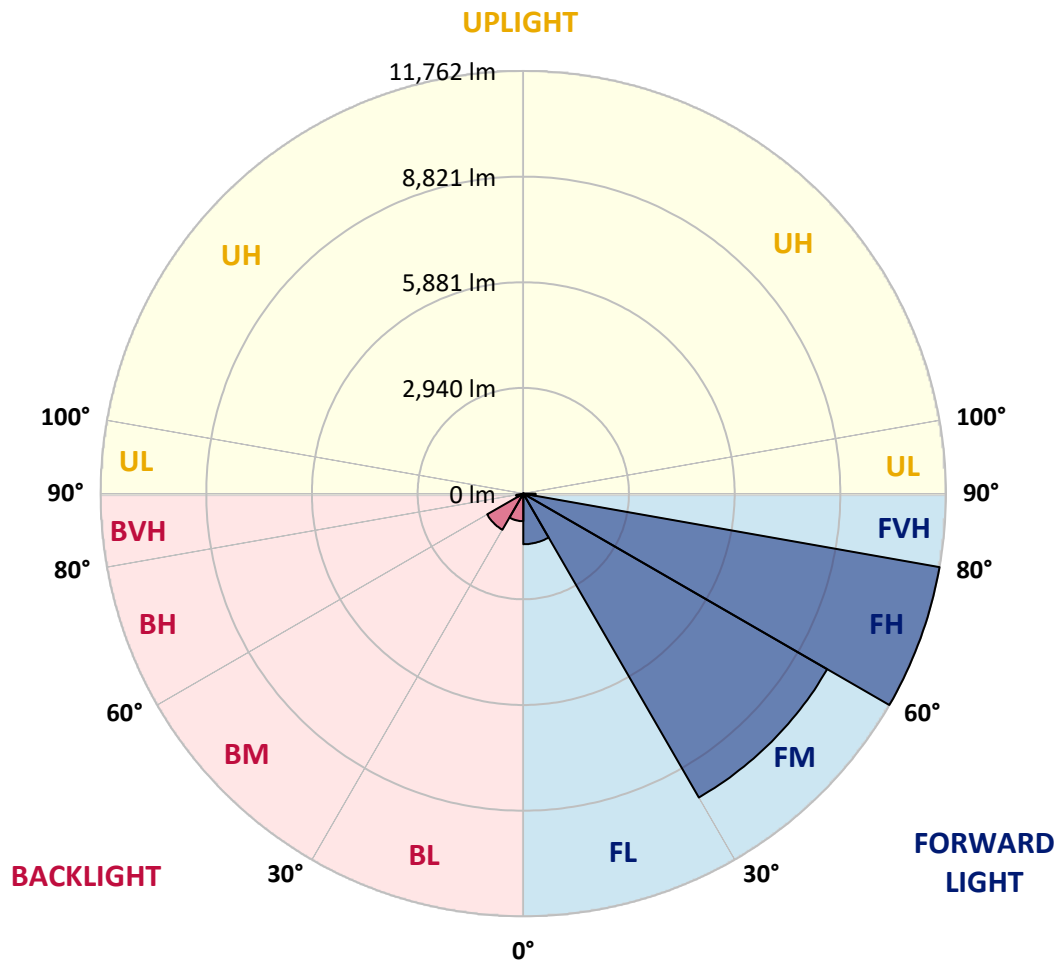
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1408.2	5.5			
FM (30°-60°)	9765.1	38.4			
FH (60°-80°)	11761.7	46.3			G4/12000
FVH (80°-90°)	342.9	1.3			G3/500
BL (0°-30°)	766.8	3.0	B2/1000		
BM (30°-60°)	1160.9	4.6	B2/2500		
BH (60°-80°)	199.0	0.8	B1/500		G1/500
BVH (80°-90°)	1.3	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	4085.7	4085.7	4085.7	4085.7	4085.7	4085.7	4085.7	4085.7	4085.7	4085.7	4085.7
2.5°	3789.3	3828.3	3822.4	3836.1	3869.2	3882.9	3919.9	3960.9	4017.4	4056.4	4081.8
5°	3393.4	3422.6	3426.5	3494.8	3527.9	3565.0	3674.2	3793.2	3925.8	4031.1	4101.3
7.5°	2970.2	2985.8	3017.0	3106.7	3190.5	3227.6	3393.4	3600.1	3808.8	4005.7	4132.5
10°	2621.1	2638.6	2695.2	2790.7	2868.8	2917.5	3147.6	3407.0	3699.5	3992.1	4177.3
12.5°	2422.2	2431.9	2453.4	2539.2	2638.6	2691.3	2939.0	3235.4	3611.8	3997.9	4253.4
15°	2408.5	2404.6	2379.3	2414.4	2504.1	2558.7	2800.5	3118.4	3533.8	4017.4	4343.1
17.5°	2480.7	2470.9	2410.5	2410.5	2484.6	2529.4	2742.0	3056.0	3494.8	4062.3	4469.9
20°	2591.8	2576.2	2476.8	2469.0	2541.1	2587.9	2777.1	3059.9	3502.6	4146.1	4639.5
22.5°	2732.2	2714.7	2564.5	2568.4	2646.4	2693.2	2878.5	3130.1	3551.3	4249.5	4820.9
25°	2915.6	2896.1	2718.6	2710.8	2792.7	2833.6	3028.7	3254.9	3619.6	4378.2	5058.8
27.5°	3159.3	3118.4	2905.8	2894.1	2981.9	3034.5	3210.0	3422.6	3740.5	4555.7	5378.7
30°	3360.2	3315.4	3112.5	3081.3	3174.9	3215.9	3397.3	3648.8	3978.4	4865.8	5821.4
32.5°	3623.5	3557.2	3319.3	3237.3	3336.8	3389.5	3668.3	4070.1	4331.4	5193.4	6347.9
35°	4216.3	4175.4	3884.8	3598.1	3592.3	3658.6	4068.1	4495.2	4694.1	5704.4	7065.6
37.5°	5064.7	5035.4	4727.3	4343.1	4231.9	4200.7	4553.7	4963.3	5273.4	6406.4	7900.3
40°	6049.5	5981.3	5698.5	5372.8	5228.5	5136.8	5127.1	5659.5	6030.0	7360.1	8770.1
42.5°	6755.5	6630.7	6287.5	6264.1	6232.9	6137.3	5860.4	6677.5	7007.1	8385.9	9700.3
45°	7496.6	7307.4	6796.5	6708.7	6697.0	6691.2	6968.1	7882.7	8071.9	9497.5	10655.9
47.5°	8071.9	7921.7	7502.4	7463.4	7512.2	7644.8	8432.7	9162.1	9123.1	10488.2	11457.5
50°	8838.3	8725.2	8259.1	8333.2	8584.8	8801.3	10084.5	10556.5	9987.0	11268.3	12040.6
52.5°	9743.2	9534.6	9101.6	9302.5	9688.6	10049.4	11837.8	11777.3	10593.5	11855.3	12475.5
55°	10527.2	10379.0	10230.8	10439.5	11016.7	11467.2	13421.3	12691.9	11034.3	12327.3	12666.6
57.5°	11853.4	11818.2	11666.1	11878.7	12578.8	13046.9	14839.1	13401.8	11317.0	12573.0	12442.3
60°	13815.3	13758.7	13475.9	13747.0	14659.7	15394.9	16145.8	14039.5	11381.4	12477.4	11796.8
62.5°	16175.0	15981.9	15740.1	16139.9	17391.9	17715.7	17376.3	14417.9	11141.5	11716.8	10240.5
65°	18378.7	18179.8	18185.7	19028.2	20391.4	20611.7	18811.7	14361.3	10439.5	9811.5	7553.1
67.5°	20065.7	20032.5	20270.4	21914.5	23697.0	23544.8	20094.9	13514.9	8358.6	6359.6	4013.5
70°	20151.5	20215.8	20898.4	23673.6	25483.3	25241.5	19985.7	10985.5	5211.0	2925.3	1581.6
71°	19114.0	19546.9	20490.8	23618.9	25588.7	25274.7	19065.2	9201.1	3822.4	2039.9	1140.9
72.5°	16288.1	16516.3	18556.2	22228.4	24755.9	24085.0	16730.8	6449.3	2447.5	1248.1	655.3
75°	8970.9	9532.6	12426.7	17438.7	19800.4	19211.5	10903.6	3063.8	1220.8	682.6	271.1
77.5°	4271.0	4161.7	6063.2	10371.2	13425.2	13394.0	5493.7	1361.2	711.8	462.2	136.5
80°	1220.8	1372.9	2320.7	4930.1	7453.7	7535.6	2110.1	657.2	493.4	360.8	70.2
82.5°	368.6	376.4	852.2	2180.3	3707.3	3494.8	791.8	335.4	354.9	286.7	41.0
85°	64.4	80.0	251.6	768.4	1413.9	1072.6	198.9	159.9	234.0	189.2	23.4
87.5°	3.9	5.9	83.9	87.8	124.8	72.2	35.1	23.4	50.7	50.7	13.7
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°	4085.7	4085.7	4085.7	4085.7	4085.7	4085.7	4085.7	4085.7	4085.7	4085.7	4085.7
2.5°	4099.3	4111.0	4103.2	4085.7	4056.4	4021.3	3974.5	3935.5	3902.4	3884.8	3906.3
5°	4124.7	4140.3	4101.3	4013.5	3880.9	3736.6	3572.8	3446.0	3346.6	3315.4	3303.6
7.5°	4163.7	4173.4	4068.1	3873.1	3592.3	3251.0	2952.6	2701.0	2506.0	2447.5	2361.7
10°	4214.4	4208.5	4009.6	3646.9	3153.5	2640.6	2178.4	1835.1	1575.8	1482.2	1474.4
12.5°	4292.4	4261.2	3935.5	3338.8	2630.8	1960.0	1388.5	1086.3	922.4	867.8	856.1
15°	4389.9	4315.8	3818.5	2978.0	2014.6	1265.7	856.1	764.5	743.0	739.1	735.2
17.5°	4505.0	4388.0	3664.4	2535.3	1415.8	821.0	715.7	713.8	715.7	711.8	709.9
20°	4661.0	4464.0	3481.1	2010.7	936.1	692.3	682.6	682.6	684.5	682.6	682.6
22.5°	4826.8	4553.7	3254.9	1534.8	706.0	657.2	655.3	659.2	663.1	661.1	661.1
25°	5031.5	4670.7	2956.5	1051.2	631.9	628.0	629.9	637.7	645.5	647.5	645.5
27.5°	5328.0	4815.1	2636.7	723.5	579.2	583.1	602.6	622.1	633.8	635.8	635.8
30°	5661.4	4975.0	2219.3	587.0	536.3	536.3	559.7	596.8	622.1	626.0	628.0
32.5°	6090.5	5160.2	1757.1	528.5	495.4	491.5	512.9	557.8	604.6	618.2	618.2
35°	6620.9	5378.7	1306.6	491.5	466.1	456.3	468.0	505.1	565.6	604.6	608.5
37.5°	7243.1	5585.4	955.6	458.3	438.8	425.1	432.9	462.2	511.0	569.5	585.1
40°	7818.4	5768.7	713.8	431.0	411.5	401.7	407.6	421.2	462.2	516.8	526.6
42.5°	8446.3	5911.1	567.5	401.7	384.2	380.3	380.3	386.1	413.4	444.6	446.6
45°	9072.4	5961.8	475.9	366.6	354.9	358.8	356.9	353.0	364.7	360.8	360.8
47.5°	9519.0	5901.3	393.9	333.5	333.5	339.3	329.6	315.9	310.1	286.7	288.6
50°	9825.1	5681.0	323.7	294.5	310.1	317.9	298.4	276.9	255.5	230.1	224.3
52.5°	9951.9	5289.0	265.2	243.8	275.0	284.7	261.3	236.0	202.8	181.4	175.5
55°	9870.0	4805.3	220.4	198.9	232.1	243.8	220.4	191.1	154.1	130.7	126.8
57.5°	9509.2	4228.0	187.2	158.0	185.3	193.1	177.5	146.3	109.2	85.8	85.8
60°	8885.1	3631.3	152.1	124.8	138.5	150.2	134.6	105.3	74.1	52.7	48.8
62.5°	7619.5	2948.7	122.9	97.5	97.5	107.3	93.6	76.1	46.8	27.3	25.4
65°	5501.5	2022.4	97.5	72.2	70.2	70.2	58.5	50.7	27.3	11.7	7.8
67.5°	2989.7	1140.9	78.0	54.6	48.8	46.8	37.1	29.3	11.7	2.0	0.0
70°	1176.0	438.8	60.5	37.1	31.2	29.3	19.5	13.7	7.8	0.0	0.0
71°	797.6	302.3	52.7	31.2	25.4	21.5	15.6	11.7	5.9	0.0	0.0
72.5°	456.3	187.2	41.0	23.4	19.5	15.6	11.7	7.8	5.9	0.0	0.0
75°	198.9	95.6	25.4	17.6	13.7	9.8	7.8	5.9	2.0	0.0	0.0
77.5°	101.4	52.7	17.6	13.7	7.8	5.9	3.9	2.0	0.0	0.0	0.0
80°	56.6	27.3	11.7	7.8	5.9	3.9	2.0	2.0	0.0	0.0	0.0
82.5°	31.2	15.6	5.9	3.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.5	9.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.8	3.9	0.0	0.0	0.0	0.0	2.0	2.0	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)