

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: P454867

Luminaire Tested: **GALN-SA6A-730-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454867
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-SA6A-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 615mA 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: 20430 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

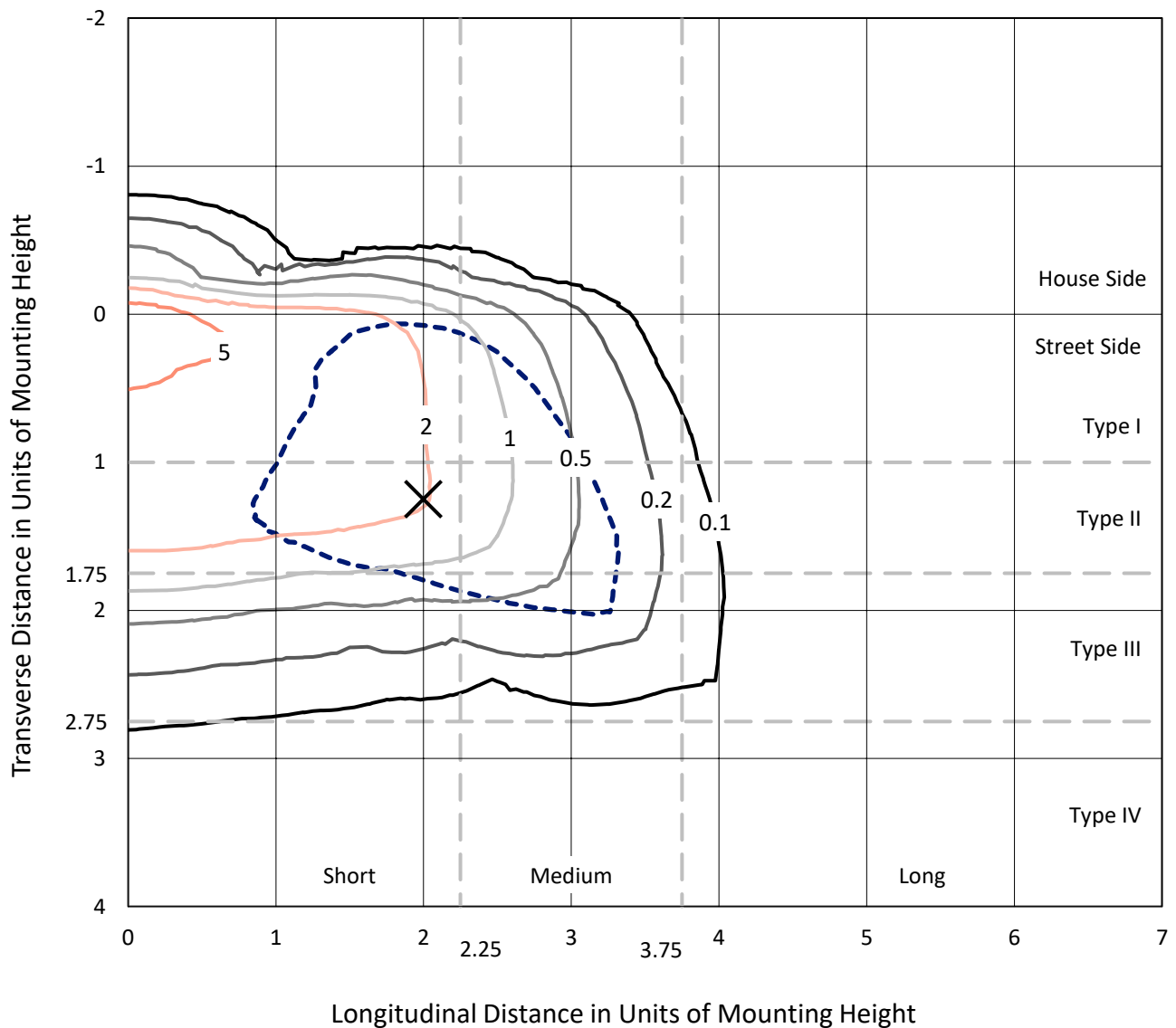
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454867
 CATALOG NUMBER: GALN-SA6A-730-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

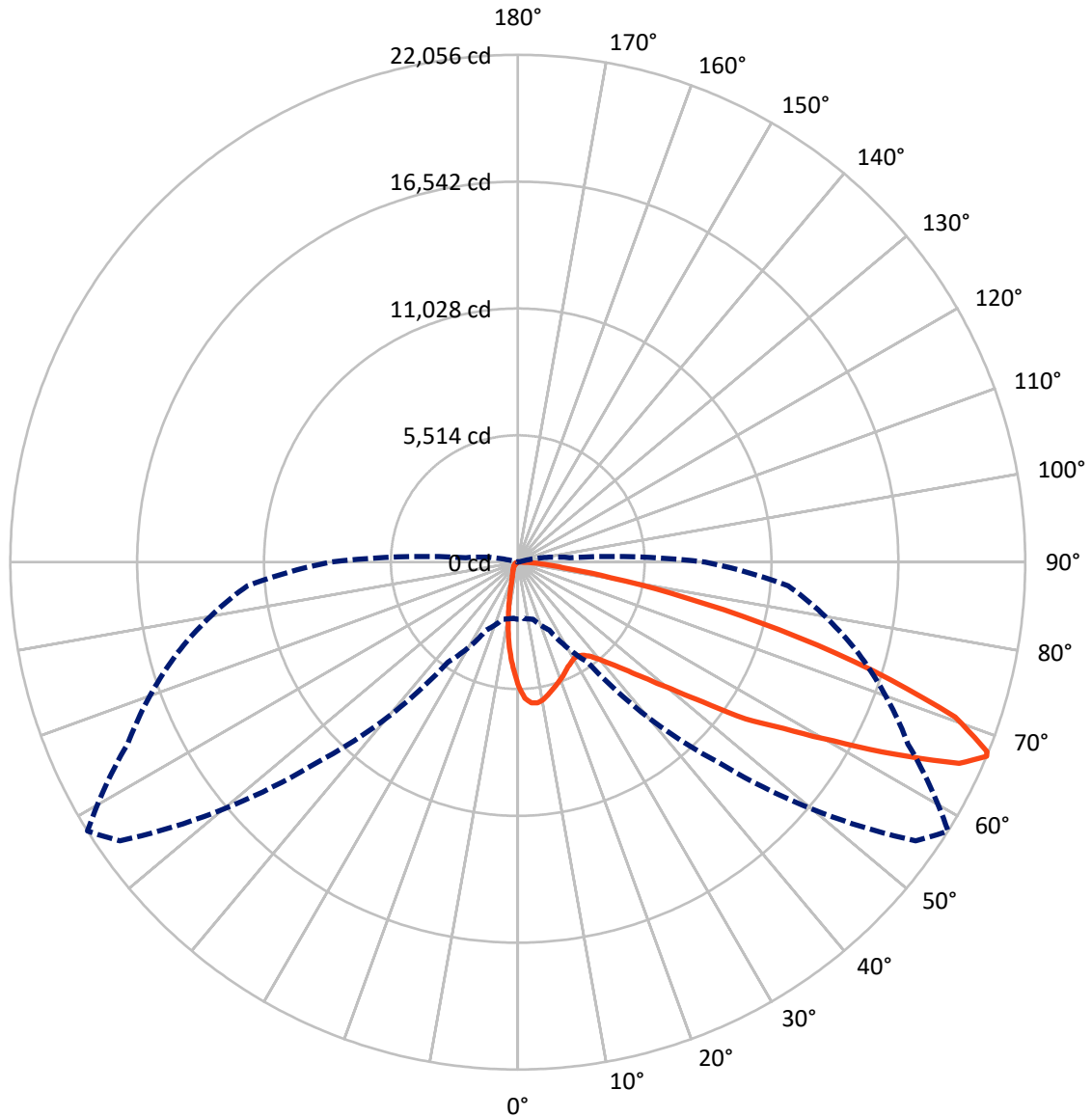
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Short - N/A

REPORT NUMBER: P454867
CATALOG NUMBER: GALN-SA6A-730-U-SL3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P454867
 CATALOG NUMBER: GALN-SA6A-730-U-SL3-HSS

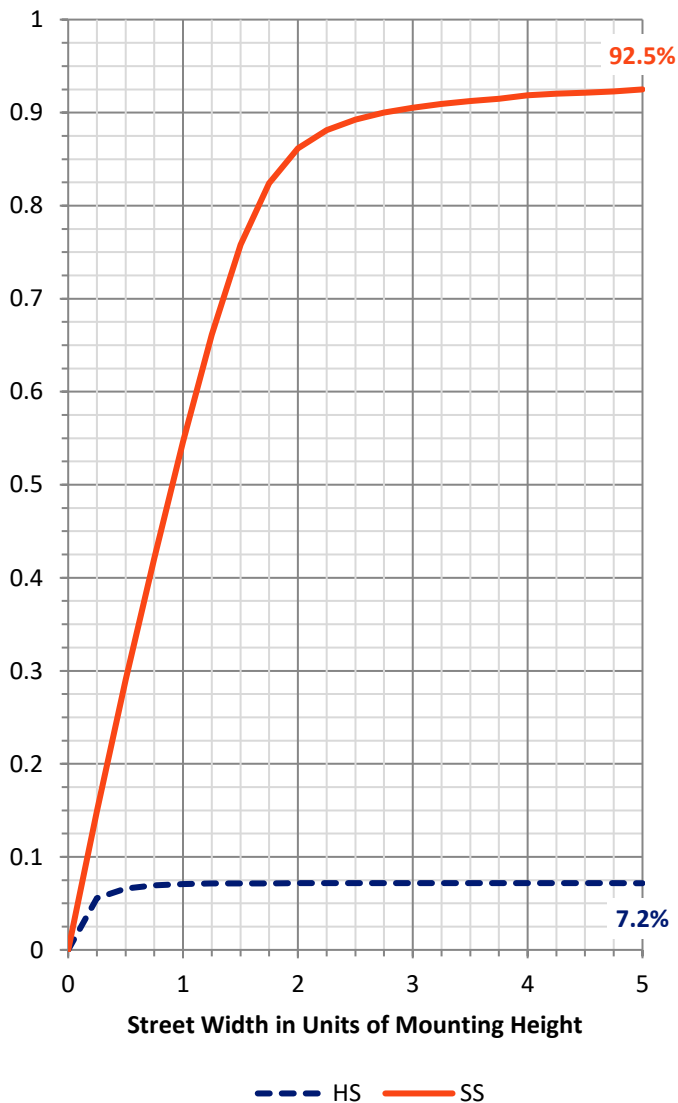
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1474.4	0.0	1474.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	18955.7	0.0	18955.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	20430.0	0.0	20430.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.5	2.2
10°-20°	949.2	4.6
20°-30°	1286.2	6.3
30°-40°	1783.9	8.7
40°-50°	2845.1	13.9
50°-60°	4917.9	24.1
60°-70°	5617.8	27.5
70°-80°	2342.1	11.5
80°-90°	248.3	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°	20430.0	100.0
0°-180°	20430.0	100.0



REPORT NUMBER: P454867

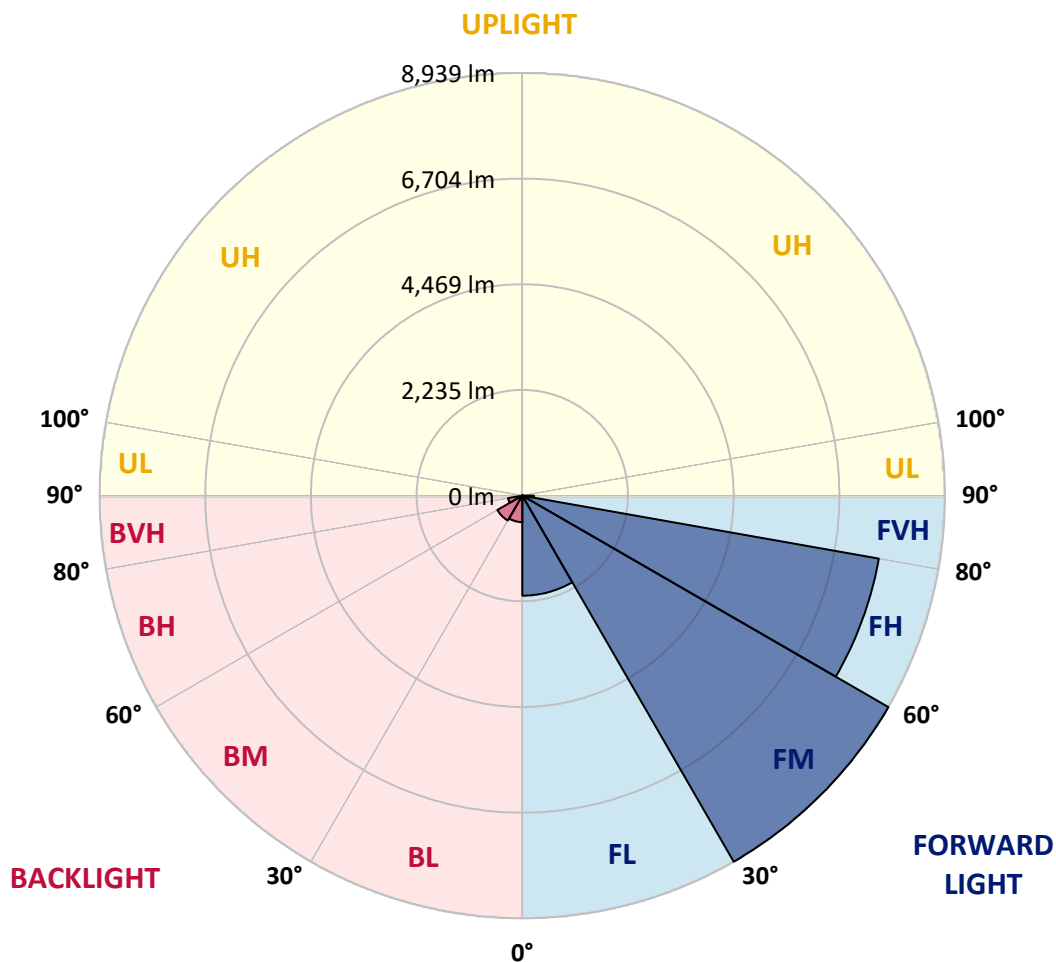
CATALOG NUMBER: GALN-SA6A-730-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2115.0	10.4			
FM (30°-60°)	8939.0	43.8			
FH (60°-80°)	7655.1	37.5			G4/12000
FVH (80°-90°)	246.5	1.2			G3/500
BL (0°-30°)	559.8	2.7	B2/1000		
BM (30°-60°)	607.9	3.0	B1/1000		
BH (60°-80°)	304.8	1.5	B1/500		G1/500
BVH (80°-90°)	1.8	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: P454867

CATALOG NUMBER: GALN-SA6A-730-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5415.8	5415.8	5415.8	5415.8	5415.8	5415.8	5415.8	5415.8	5415.8	5415.8	5415.8
2.5°	6285.4	6295.0	6259.5	6230.8	6157.1	6077.9	5972.8	5916.8	5821.3	5656.1	5473.1
5°	6432.9	6445.2	6439.7	6432.9	6404.2	6327.8	6194.0	6144.8	6004.2	5735.3	5404.9
7.5°	6105.2	6150.3	6155.8	6209.0	6259.5	6266.3	6215.8	6179.0	6049.3	5733.9	5283.4
10°	5671.1	5701.1	5744.8	5806.3	5927.8	6028.8	6077.9	6072.5	5997.4	5691.6	5141.4
12.5°	5232.9	5249.2	5316.1	5421.3	5570.1	5742.1	5873.2	5899.1	5900.5	5641.1	5022.6
15°	4856.1	4849.2	4901.1	5022.6	5231.5	5447.2	5682.0	5723.0	5788.5	5591.9	4912.0
17.5°	4533.9	4569.4	4577.6	4711.4	4903.9	5183.7	5482.7	5555.1	5686.1	5549.6	4820.6
20°	4334.6	4353.7	4371.4	4446.5	4619.9	4914.8	5295.7	5395.3	5590.6	5511.4	4718.2
22.5°	4275.9	4288.1	4273.1	4296.3	4419.2	4681.3	5092.2	5224.7	5499.1	5475.9	4634.9
25°	4320.9	4333.2	4297.7	4270.4	4312.7	4491.6	4895.7	5056.8	5425.4	5469.0	4572.1
27.5°	4430.1	4453.3	4404.2	4355.0	4330.5	4389.2	4741.4	4928.4	5374.8	5501.8	4543.4
30°	4600.8	4614.4	4577.6	4517.5	4461.5	4402.8	4660.8	4839.7	5361.2	5578.3	4540.7
32.5°	4786.4	4815.1	4794.6	4755.0	4682.7	4543.4	4684.1	4842.4	5394.0	5688.8	4574.8
35°	5015.8	5048.6	5067.7	5059.5	4966.6	4793.3	4831.5	4965.3	5481.3	5892.3	4667.7
37.5°	5241.1	5269.7	5377.6	5414.4	5332.5	5168.7	5118.2	5206.9	5673.8	6158.5	4835.6
40°	5499.1	5537.3	5688.8	5829.5	5789.9	5617.9	5525.0	5598.7	5968.7	6559.9	5153.7
42.5°	5746.2	5814.4	6045.2	6293.6	6330.5	6138.0	6076.6	6101.1	6405.6	7137.3	5597.4
45°	6097.0	6161.2	6458.8	6796.0	6969.4	6819.2	6756.4	6752.4	7004.9	7949.6	6316.8
47.5°	6603.5	6660.9	7011.7	7344.9	7653.4	7673.9	7555.1	7596.1	7758.5	8899.8	7198.8
50°	7224.7	7359.9	7590.6	7937.4	8349.7	8682.8	8719.6	8665.0	8804.3	10000.2	8258.2
52.5°	8127.1	8179.0	8390.6	8675.9	9159.2	9724.4	10162.7	10087.6	10043.9	11048.7	9328.5
55°	8800.2	8869.8	9198.8	9590.6	10299.2	11044.6	11994.8	12020.7	11469.2	12056.2	10375.6
57.5°	8596.8	8703.2	9201.5	9989.3	11547.0	12909.5	13616.6	13634.4	12788.0	13035.1	11557.9
60°	7552.4	7602.9	8316.9	9368.1	11653.5	14930.0	15917.0	15773.7	14130.0	14130.0	12602.3
62.5°	5355.7	5434.9	6013.8	7560.6	10524.4	15631.7	18672.0	18375.8	15978.5	15177.1	13224.8
65°	3422.6	3346.1	3729.8	4772.8	7840.4	14595.5	21070.7	21088.5	17717.8	15596.2	12884.9
67°	2479.2	2449.2	2559.8	3262.9	5316.1	12269.2	21121.2	22056.4	18717.1	15331.4	11798.2
67.5°	2267.6	2290.8	2371.4	2943.4	4830.1	11164.7	20891.9	21999.1	18942.3	15171.6	11405.0
70°	1718.8	1679.2	1766.6	2082.0	2895.6	7043.1	17971.7	20176.5	18662.5	13586.6	9112.8
72.5°	1264.2	1260.1	1381.6	1702.4	2229.4	3751.6	13491.0	16177.8	15246.7	10345.6	5738.0
75°	853.3	891.5	1085.3	1422.6	2020.5	2432.8	9197.4	11736.7	10584.5	5874.5	2345.4
77.5°	486.0	488.7	699.0	1142.7	1814.4	1957.7	5449.9	7477.3	5602.8	1953.6	696.3
80°	210.2	230.7	346.8	830.1	1504.5	1733.8	3125.0	4109.3	2266.3	413.7	225.3
82.5°	77.8	91.5	152.9	510.6	1097.6	1428.0	1888.1	1961.8	768.6	146.1	140.6
85°	0.0	2.7	56.0	238.9	572.0	637.6	1261.5	1163.2	339.9	69.6	91.5
87.5°	0.0	0.0	0.0	24.6	75.1	237.5	391.8	436.9	81.9	24.6	21.8
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: P454867
 CATALOG NUMBER: GALN-SA6A-730-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5415.8	5415.8	5415.8	5415.8	5415.8	5415.8	5415.8	5415.8	5415.8	5415.8	5415.8
2.5°	5374.8	5286.1	5063.6	4841.1	4675.9	4538.0	4330.5	4217.1	4157.1	4068.3	4073.8
5°	5239.7	5059.5	4667.7	4262.2	3934.5	3615.1	3232.8	3078.6	2948.9	2875.1	2826.0
7.5°	5039.0	4772.8	4192.6	3651.9	3148.2	2589.8	2170.7	1890.8	1702.4	1632.8	1565.9
10°	4819.2	4465.6	3710.7	2961.1	2262.2	1686.0	1331.1	1074.4	983.0	898.3	906.5
12.5°	4615.8	4185.7	3268.3	2337.2	1585.0	1071.7	835.5	730.4	700.4	690.8	690.8
15°	4449.2	3918.2	2793.2	1757.0	1086.7	770.0	669.0	640.3	629.4	626.6	626.6
17.5°	4271.8	3664.2	2364.6	1298.3	790.5	644.4	610.3	591.1	587.0	584.3	584.3
20°	4113.4	3408.9	1957.7	966.6	638.9	580.2	558.4	546.1	542.0	539.3	540.6
22.5°	3963.2	3182.3	1575.5	730.4	562.5	528.3	506.5	494.2	486.0	479.2	480.6
25°	3829.4	2963.9	1266.9	598.0	506.5	476.5	454.6	436.9	419.1	410.9	409.6
27.5°	3735.2	2772.8	987.0	512.0	456.0	423.2	395.9	374.1	350.9	338.6	335.8
30°	3657.4	2578.9	780.9	451.9	405.5	374.1	339.9	308.5	284.0	271.7	266.2
32.5°	3606.9	2394.6	615.7	402.7	363.1	324.9	286.7	255.3	228.0	215.7	213.0
35°	3598.7	2240.3	503.8	361.8	324.9	284.0	244.4	210.2	187.0	174.7	172.0
37.5°	3657.4	2121.5	421.9	329.0	293.5	248.5	204.8	173.4	152.9	143.3	142.0
40°	3814.4	2046.5	365.9	301.7	264.9	215.7	174.7	147.4	127.0	117.4	117.4
42.5°	4113.4	2049.2	329.0	275.8	236.2	184.3	148.8	122.9	105.1	96.9	94.2
45°	4580.3	2142.0	297.6	249.8	208.9	159.7	127.0	101.0	83.3	76.5	76.5
47.5°	5205.6	2326.3	270.3	223.9	184.3	136.5	107.9	81.9	66.9	60.1	60.1
50°	6023.3	2622.6	247.1	202.1	163.8	117.4	87.4	66.9	51.9	46.4	45.1
52.5°	6877.9	2988.5	219.8	182.9	140.6	99.7	71.0	51.9	39.6	35.5	34.1
55°	7821.3	3346.1	193.9	163.8	114.7	83.3	56.0	41.0	28.7	24.6	24.6
57.5°	8772.9	3697.0	162.5	136.5	90.1	61.4	43.7	30.0	19.1	15.0	15.0
60°	9578.3	3810.3	137.9	110.6	68.3	43.7	31.4	19.1	10.9	6.8	6.8
62.5°	9688.9	3428.1	116.0	84.6	49.1	30.0	16.4	10.9	4.1	2.7	2.7
65°	9088.2	2785.0	96.9	64.2	32.8	15.0	6.8	4.1	1.4	0.0	0.0
67°	8143.5	2258.1	79.2	47.8	23.2	9.6	4.1	1.4	0.0	0.0	0.0
67.5°	7901.9	2152.9	76.5	45.1	20.5	8.2	2.7	1.4	0.0	0.0	0.0
70°	6200.8	1612.3	54.6	27.3	12.3	5.5	0.0	0.0	0.0	0.0	0.0
72.5°	3854.0	912.0	39.6	16.4	8.2	2.7	0.0	0.0	0.0	0.0	0.0
75°	1456.7	319.5	27.3	10.9	5.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	453.3	121.5	16.4	8.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	152.9	46.4	10.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	94.2	19.1	6.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	58.7	8.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.9	2.7	1.4	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)