

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: P323319

Luminaire Tested: **GLEON-SA5B-827-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323319
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5B-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17391 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

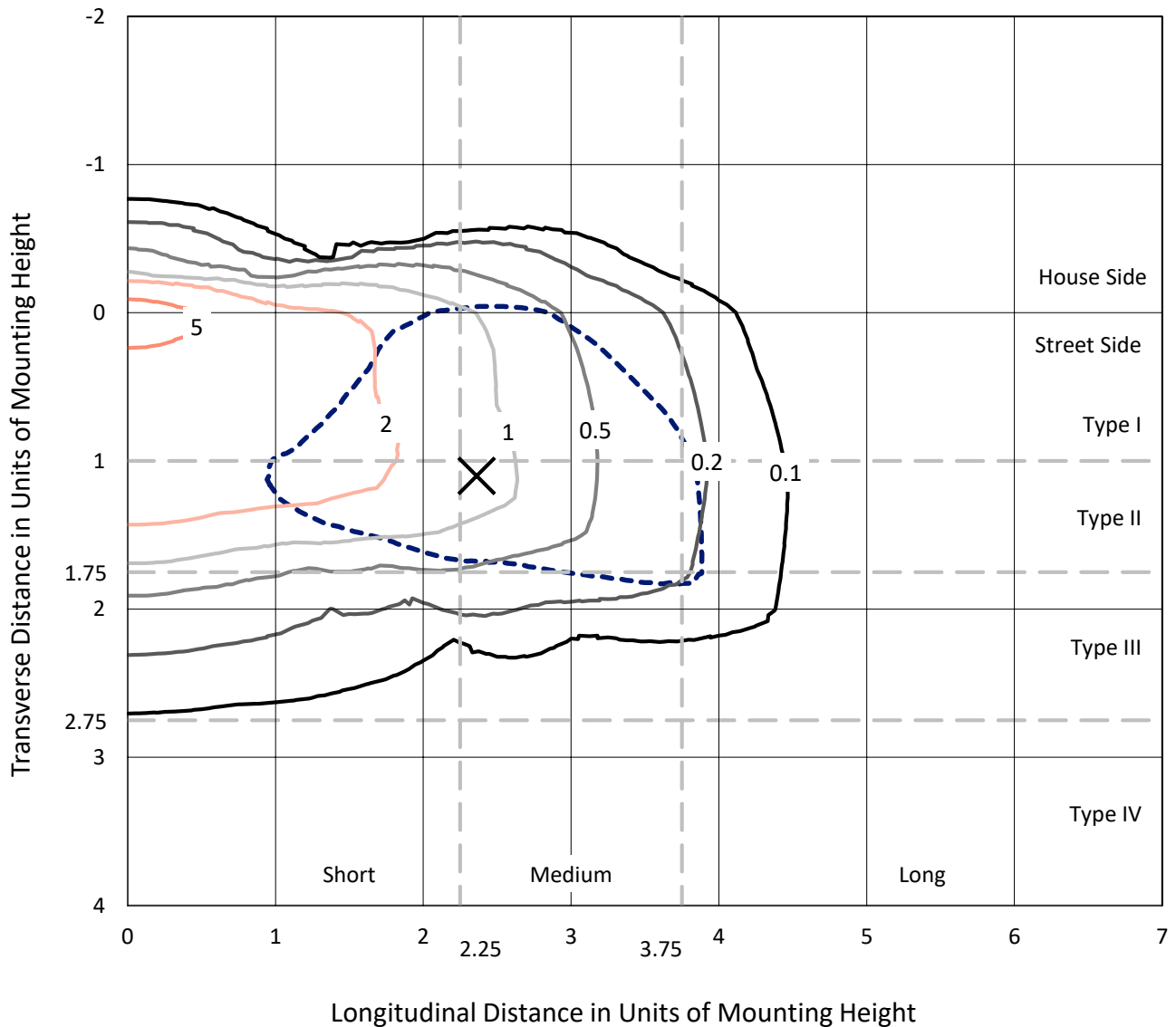
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

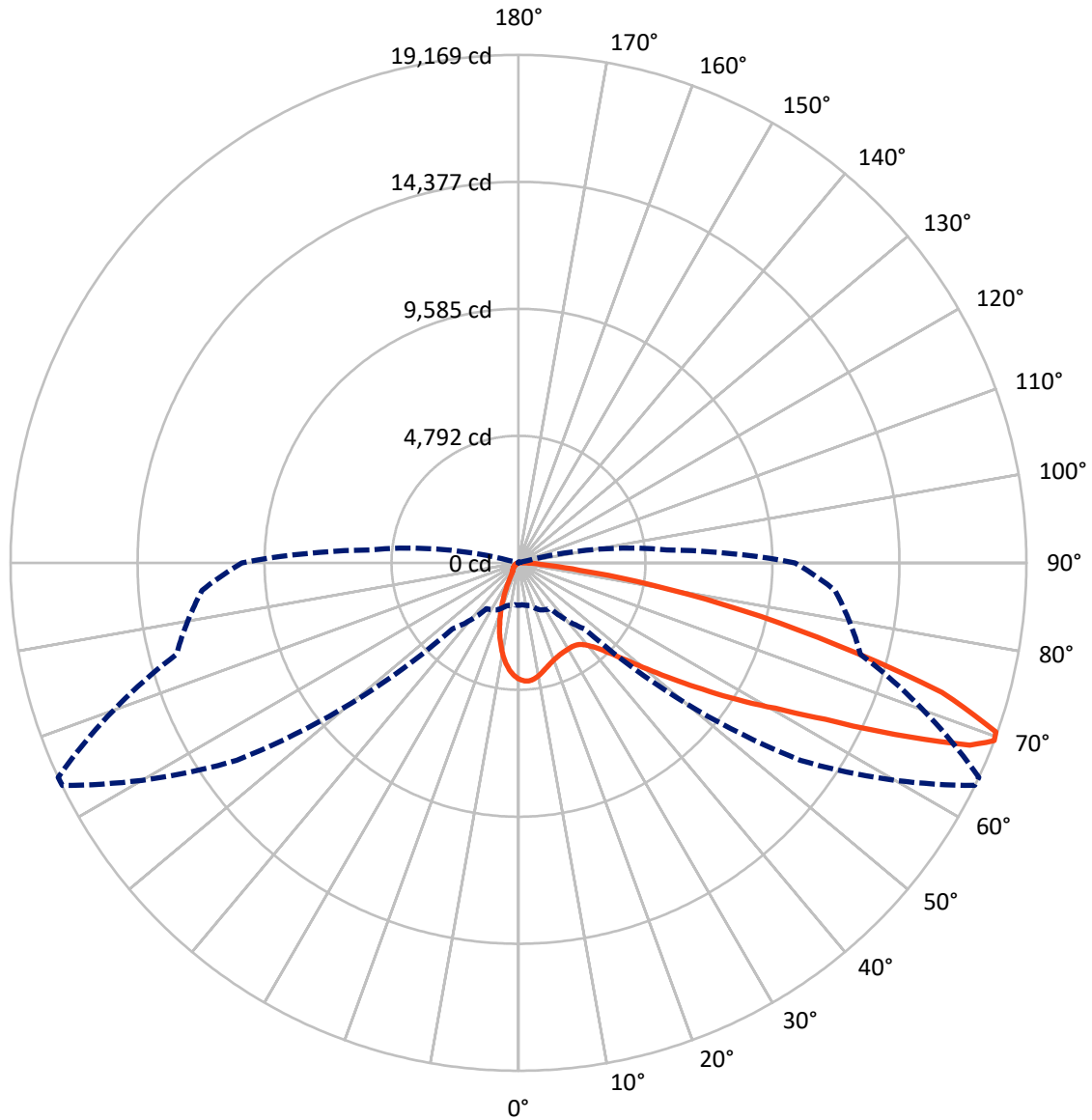
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2050.0	0.0	2050.0
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	15341.0	0.0	15341.0
	% Fixture	88.2	0.0	88.2
Total	Lumens	17391.0	0.0	17391.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.5	2.1
10°-20°	804.5	4.6
20°-30°	1114.2	6.4
30°-40°	1553.5	8.9
40°-50°	2414.7	13.9
50°-60°	3876.6	22.3
60°-70°	4385.0	25.2
70°-80°	2575.4	14.8
80°-90°	299.6	1.7
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°	17391.0	100.0
0°-180°	17391.0	100.0

Coefficient of Utilization

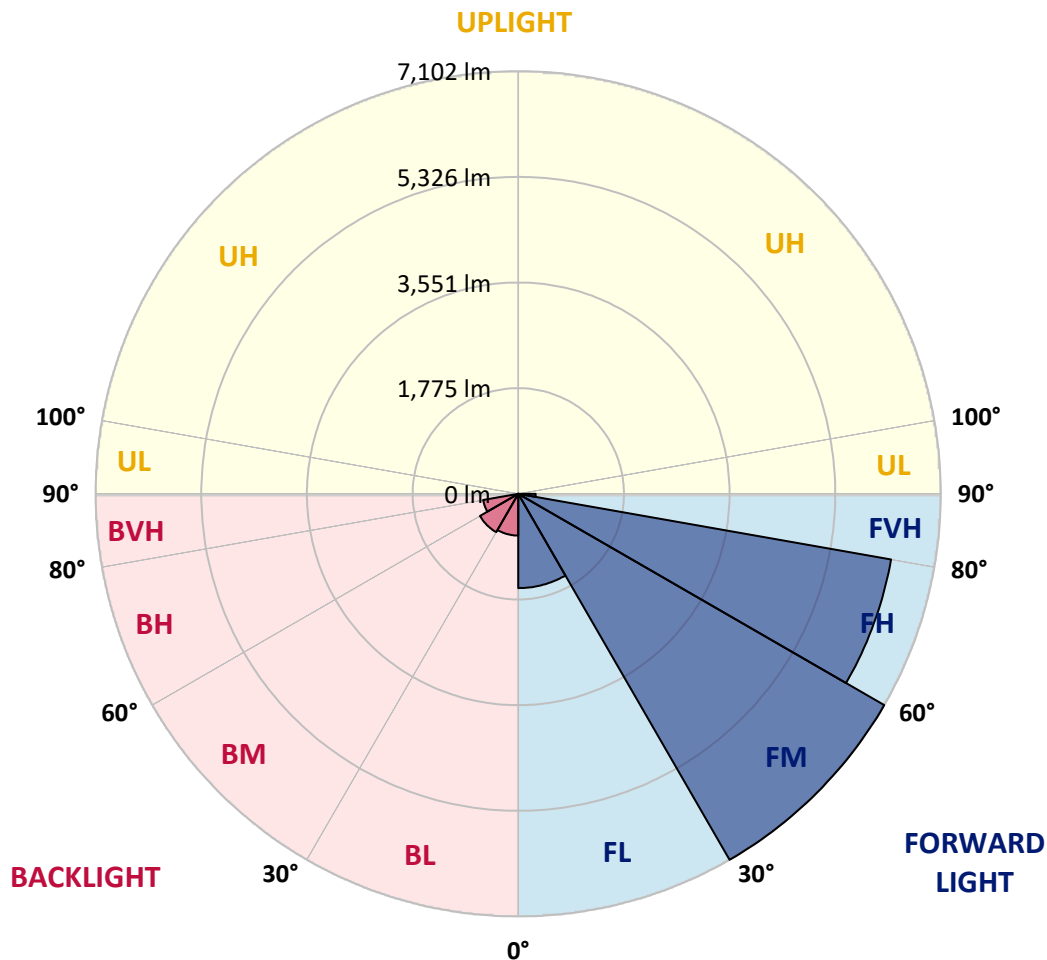


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1584.7	9.1			
FM (30°-60°)	7102.0	40.8			
FH (60°-80°)	6361.5	36.6			G3/7500
FVH (80°-90°)	292.8	1.7			G3/500
BL (0°-30°)	701.4	4.0	B2/1000		
BM (30°-60°)	742.9	4.3	B1/1000		
BH (60°-80°)	599.0	3.4	B2/1000		G2/1000
BVH (80°-90°)	6.7	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-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4394.7	4394.7	4394.7	4394.7	4394.7	4394.7	4394.7	4394.7	4394.7	4394.7	4394.7
2.5°	4433.7	4422.7	4431.5	4450.7	4460.2	4460.2	4467.6	4458.8	4461.7	4440.4	4409.5
5°	4156.3	4139.4	4163.7	4217.4	4283.6	4340.3	4424.2	4468.3	4472.7	4473.5	4437.4
7.5°	3857.5	3842.1	3878.1	3941.4	4026.8	4132.0	4278.5	4406.5	4413.9	4483.0	4456.6
10°	3614.7	3603.7	3645.6	3713.3	3813.4	3931.1	4110.7	4288.8	4310.1	4463.2	4453.6
12.5°	3421.9	3413.1	3452.8	3530.8	3633.1	3763.3	3951.0	4157.8	4186.5	4418.3	4438.9
15°	3281.3	3279.9	3313.0	3388.0	3501.4	3622.8	3814.9	4036.4	4069.5	4369.7	4436.7
17.5°	3207.7	3210.0	3234.2	3298.3	3395.4	3516.1	3700.1	3934.1	3970.1	4326.3	4447.7
20°	3200.4	3202.6	3215.8	3251.9	3330.6	3437.3	3606.6	3848.0	3885.5	4293.9	4465.4
22.5°	3265.1	3263.7	3267.4	3263.7	3307.8	3388.8	3544.8	3781.7	3825.2	4272.6	4479.4
25°	3389.5	3387.3	3385.8	3358.6	3329.2	3372.6	3519.0	3744.2	3785.4	4257.1	4487.5
27.5°	3562.4	3561.0	3558.8	3513.9	3425.6	3398.3	3522.0	3730.2	3764.8	4244.6	4486.0
30°	3789.8	3800.1	3797.2	3734.6	3597.0	3477.1	3552.9	3722.9	3753.0	4220.3	4470.5
32.5°	4057.0	4077.6	4093.8	4026.8	3854.6	3633.1	3624.3	3731.0	3753.0	4201.9	4442.6
35°	4334.4	4360.9	4420.5	4396.9	4170.3	3867.8	3747.2	3779.5	3797.9	4212.2	4429.3
37.5°	4607.4	4639.1	4768.6	4837.0	4583.9	4178.4	3938.5	3899.5	3909.0	4274.8	4444.0
40°	4924.6	4972.4	5168.9	5279.3	5077.6	4594.2	4224.7	4105.5	4109.2	4412.4	4512.5
42.5°	5341.1	5390.4	5603.1	5776.0	5634.0	5119.6	4613.3	4420.5	4416.8	4670.0	4673.6
45°	5848.9	5900.4	6120.4	6312.5	6248.4	5742.2	5110.8	4880.4	4876.0	5076.2	4979.0
47.5°	6424.3	6475.1	6671.6	6869.5	6938.7	6469.2	5744.4	5508.1	5497.8	5640.6	5450.7
50°	6918.1	6951.2	7132.2	7398.6	7710.7	7362.6	6532.5	6305.1	6294.1	6390.5	6143.2
52.5°	7097.7	7116.8	7300.8	7673.9	8452.4	8572.4	7567.9	7275.0	7266.9	7308.9	7065.3
55°	6734.1	6768.7	6994.6	7548.0	8854.2	9939.7	8874.8	8476.0	8414.9	8324.4	8029.3
57.5°	5743.6	5798.8	6041.7	6777.5	8666.6	11024.4	10795.5	9834.4	9744.7	9191.3	8813.0
60°	4303.5	4371.2	4572.8	5366.8	7665.0	11410.7	12894.3	11348.2	11145.8	9881.5	9533.5
62.5°	2953.1	2987.0	3123.9	3641.2	5645.0	10777.8	14650.1	13375.5	13006.1	10632.1	10312.8
65°	2255.5	2267.3	2323.2	2501.3	3361.5	8754.9	15348.5	16050.5	15603.8	11529.9	11121.5
67.5°	1817.6	1808.1	1885.4	2140.0	2251.1	5341.1	14533.8	18581.2	18372.2	12730.2	11935.4
69°	1602.8	1589.5	1668.3	1964.1	2114.2	3530.8	12992.9	19156.0	19169.2	13363.8	11991.3
70°	1442.3	1451.2	1529.2	1859.6	2067.9	2771.4	11521.1	19009.5	19114.0	13600.7	11655.8
72.5°	963.3	986.8	1143.6	1543.9	1988.4	2097.3	6956.4	16312.5	16714.3	13067.2	10000.0
75°	543.1	560.7	746.9	1164.2	1873.6	1997.2	3674.3	12017.8	12406.4	10927.2	7711.4
77.5°	266.4	276.0	422.4	751.3	1566.7	1903.0	2084.0	8163.2	8607.0	7132.2	4361.6
80°	112.6	117.7	211.2	463.6	1120.0	1816.2	1547.6	5023.9	5079.1	2794.2	1162.0
82.5°	43.4	44.9	89.0	289.2	711.6	1415.9	1294.4	2382.1	2324.7	526.2	264.9
85°	5.2	5.9	32.4	173.7	395.9	728.5	1051.6	1026.6	950.0	104.5	136.1
87.5°	0.0	0.0	2.2	53.0	117.7	341.5	546.8	426.1	384.1	33.9	70.6
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°	4394.7	4394.7	4394.7	4394.7	4394.7	4394.7	4394.7	4394.7	4394.7	4394.7	4394.7
2.5°	4383.7	4376.3	4336.6	4279.2	4224.7	4157.0	4092.3	4053.3	4022.4	4001.8	4026.1
5°	4395.5	4363.1	4242.4	4087.9	3936.3	3765.6	3606.6	3471.9	3418.9	3360.1	3386.6
7.5°	4391.8	4330.7	4113.6	3838.4	3560.2	3272.5	3000.2	2790.5	2681.6	2574.9	2602.1
10°	4373.4	4270.4	3941.4	3533.7	3117.2	2703.7	2317.3	2023.7	1859.6	1710.9	1732.3
12.5°	4332.9	4189.4	3738.3	3184.9	2627.9	2082.6	1630.0	1254.0	1052.3	963.3	974.3
15°	4308.6	4110.7	3523.4	2831.7	2105.4	1450.4	996.4	741.0	649.1	619.6	623.3
17.5°	4296.9	4034.9	3301.2	2427.7	1571.1	923.5	643.9	568.1	548.2	543.1	544.6
20°	4285.1	3958.4	3072.3	2028.1	1082.5	621.1	529.1	507.0	499.7	493.0	494.5
22.5°	4265.2	3884.8	2826.6	1623.4	730.0	504.1	476.9	455.5	440.1	432.0	433.4
25°	4240.9	3807.5	2575.6	1209.1	532.8	449.6	423.9	393.7	375.3	360.6	361.3
27.5°	4201.9	3712.6	2316.6	880.1	447.4	402.5	367.9	334.8	303.9	287.0	287.0
30°	4147.5	3605.1	2028.8	629.9	401.1	356.2	314.2	273.0	239.9	224.4	223.0
32.5°	4087.1	3493.3	1738.2	477.6	364.3	312.8	264.9	221.5	192.1	179.6	178.8
35°	4035.6	3372.6	1448.2	400.3	327.5	270.8	218.6	181.8	158.2	147.9	147.2
37.5°	4002.5	3251.9	1165.7	357.6	294.4	231.8	183.2	150.1	133.2	125.1	124.4
40°	3997.4	3162.1	907.4	325.3	263.4	197.2	153.1	127.3	111.9	103.0	102.3
42.5°	4064.3	3110.6	696.2	298.0	231.8	167.0	130.3	108.9	92.7	83.9	83.2
45°	4240.2	3126.8	535.7	273.8	200.2	141.3	110.4	90.5	75.8	69.2	67.7
47.5°	4561.0	3238.7	426.1	249.5	170.0	120.0	94.2	75.1	62.6	55.9	55.2
50°	5132.1	3501.4	356.2	223.0	142.0	102.3	78.0	61.1	50.8	44.9	44.2
52.5°	5890.1	3969.4	317.9	197.2	117.7	86.8	64.0	48.6	39.7	35.3	34.6
55°	6726.0	4536.0	292.9	169.3	96.4	72.1	50.8	38.3	30.9	27.2	25.8
57.5°	7542.1	5026.9	269.3	142.0	80.2	58.9	40.5	30.2	24.3	20.6	19.9
60°	8292.0	5478.0	242.1	114.1	65.5	46.4	31.6	23.5	19.1	15.5	15.5
62.5°	9094.9	5826.8	204.6	89.0	53.7	35.3	25.8	21.3	15.5	13.2	12.5
65°	9945.6	6085.8	160.4	69.2	41.9	26.5	21.3	22.1	12.5	9.6	8.8
67.5°	10574.0	6034.3	118.5	54.5	32.4	20.6	20.6	23.5	11.0	7.4	6.6
69°	10435.7	5615.6	99.3	47.1	28.0	17.7	19.1	23.5	10.3	6.6	5.9
70°	10034.6	5152.0	87.6	41.9	25.0	16.2	18.4	22.8	9.6	6.6	5.9
72.5°	8356.8	3880.3	68.4	31.6	19.9	13.2	15.5	19.9	9.6	6.6	5.2
75°	6286.0	2483.6	52.2	22.8	14.7	10.3	11.8	14.7	9.6	5.9	5.2
77.5°	3420.4	895.6	37.5	15.5	10.3	8.1	8.1	11.0	8.8	4.4	2.9
80°	879.4	225.2	23.5	10.3	8.1	5.9	5.2	7.4	5.2	0.7	0.0
82.5°	217.1	50.8	12.5	7.4	5.9	2.2	2.2	3.7	2.2	0.0	0.0
85°	119.2	25.0	8.1	5.2	2.9	0.0	0.0	0.7	0.0	0.0	0.0
87.5°	61.1	7.4	2.2	1.5	0.7	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)