

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: P452546

Luminaire Tested: **GALN-SA3C-730-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19079 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

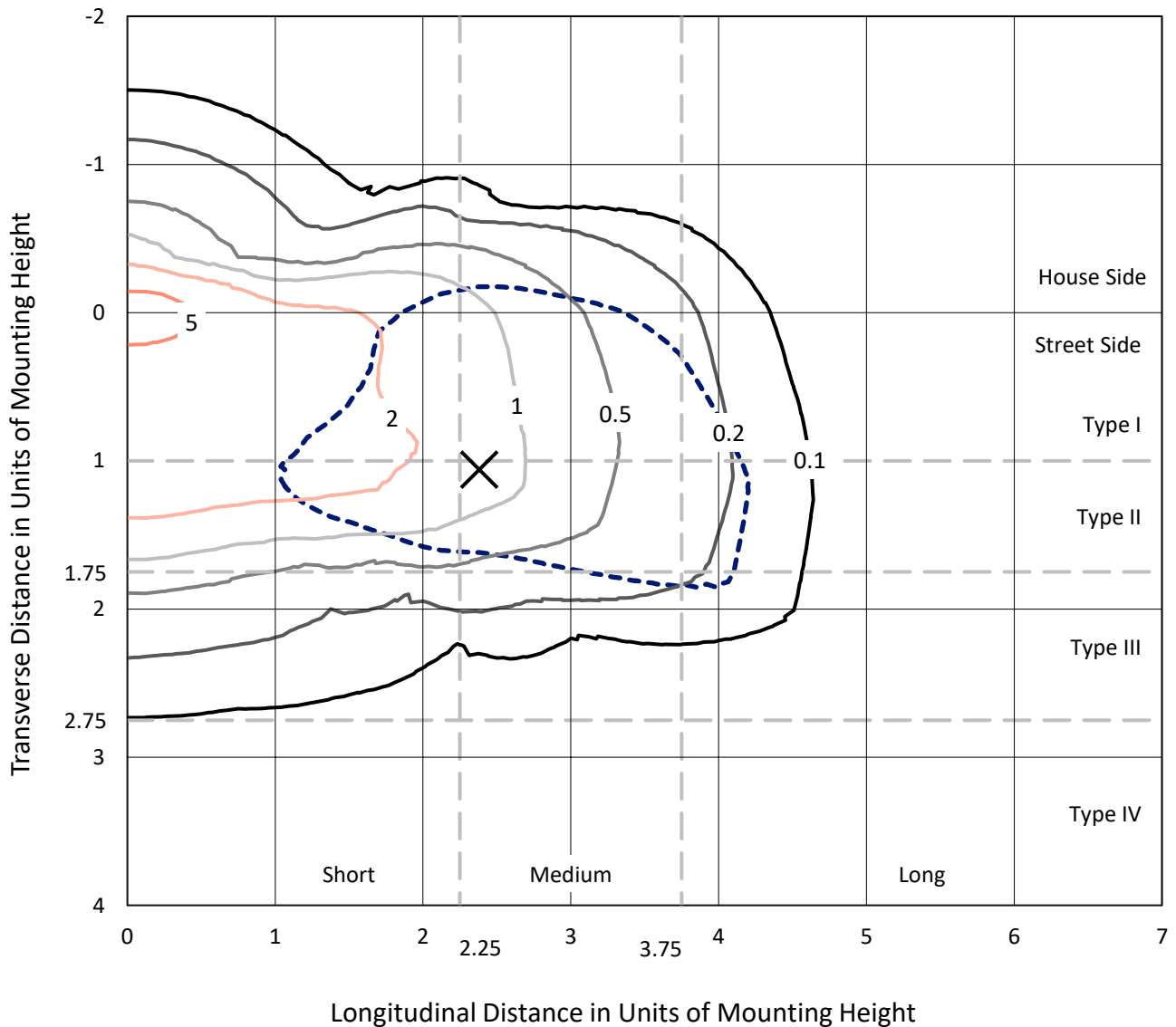
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

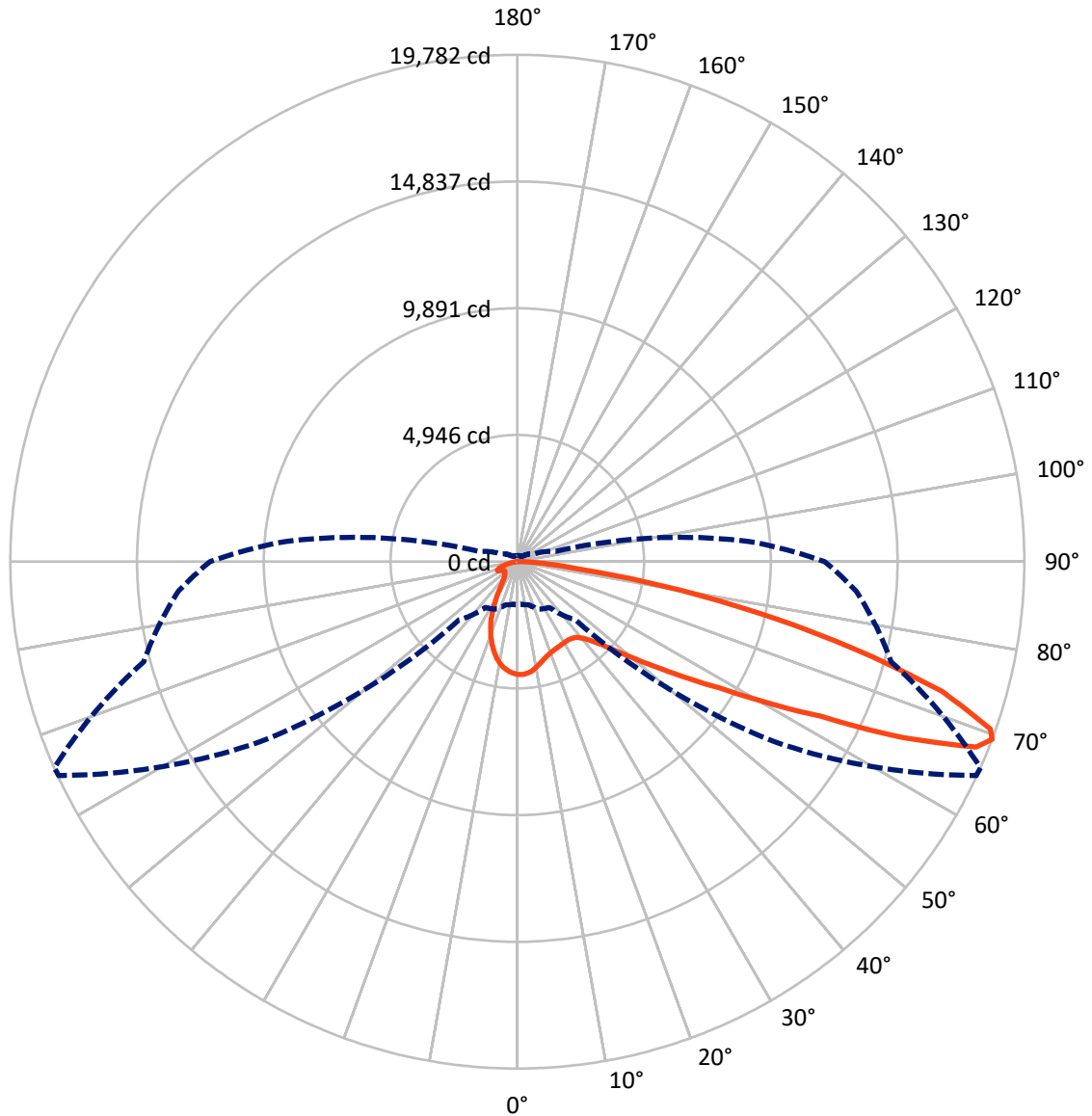
× Max cd
 - - - 1/2 Max cd



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 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3588.0	0.0	3588.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	15491.0	0.0	15491.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	19079.0	0.0	19079.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.6	2.0
10°-20°	907.5	4.8
20°-30°	1235.4	6.5
30°-40°	1660.2	8.7
40°-50°	2478.9	13.0
50°-60°	3943.1	20.7
60°-70°	4849.8	25.4
70°-80°	3155.5	16.5
80°-90°	466.0	2.4
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°	19079.0	100.0
0°-180°	19079.0	100.0

Coefficient of Utilization



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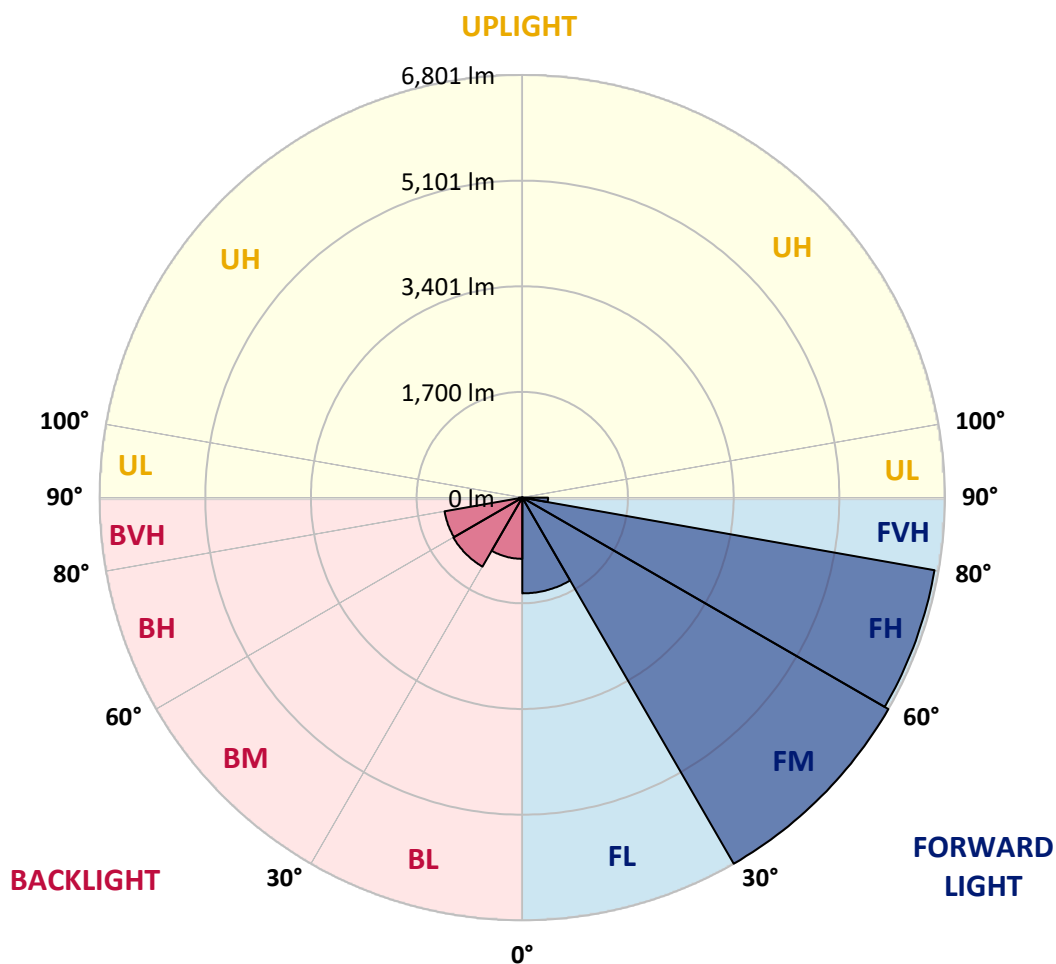
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1540.6	8.1			
FM	(30°-60°)	6801.1	35.6			
FH	(60°-80°)	6735.0	35.3			G3/7500
FVH	(80°-90°)	414.3	2.2			G3/500
BL	(0°-30°)	984.9	5.2	B2/1000		
BM	(30°-60°)	1281.1	6.7	B2/2500		
BH	(60°-80°)	1270.3	6.7	B3/2500		G3/2500
BVH	(80°-90°)	51.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4405.9	4405.9	4405.9	4405.9	4405.9	4405.9	4405.9	4405.9	4405.9	4405.9	4405.9
2.5°	4251.6	4268.5	4287.5	4308.7	4348.8	4371.0	4386.9	4404.8	4406.9	4416.4	4409.0
5°	3937.8	3957.9	3986.4	4026.6	4086.8	4180.8	4278.0	4357.3	4366.8	4411.2	4423.8
7.5°	3675.8	3687.4	3710.7	3775.1	3860.7	3965.3	4106.9	4267.5	4290.7	4396.4	4433.3
10°	3462.4	3474.0	3501.5	3568.0	3652.5	3783.6	3938.9	4150.2	4169.2	4350.9	4435.5
12.5°	3302.8	3313.4	3343.0	3408.5	3505.7	3628.2	3799.4	4023.4	4050.9	4290.7	4415.4
15°	3181.3	3201.4	3225.7	3279.6	3382.1	3500.4	3666.3	3907.2	3929.4	4227.3	4401.6
17.5°	3129.5	3139.1	3156.0	3205.6	3280.6	3396.9	3563.8	3816.3	3842.7	4182.9	4398.5
20°	3131.7	3141.2	3144.3	3171.8	3225.7	3326.1	3490.9	3744.5	3776.2	4143.8	4403.8
22.5°	3203.5	3204.6	3192.9	3183.4	3204.6	3288.0	3439.1	3690.6	3727.6	4126.9	4408.0
25°	3314.4	3333.5	3316.6	3272.2	3233.1	3273.2	3419.0	3661.0	3695.9	4102.6	4402.7
27.5°	3494.1	3497.2	3483.5	3423.3	3321.8	3292.3	3410.6	3638.8	3668.4	4084.7	4376.3
30°	3735.0	3725.4	3712.8	3646.2	3486.7	3365.2	3428.5	3618.7	3649.4	4058.3	4344.6
32.5°	3979.0	4008.6	3997.0	3918.8	3711.7	3506.7	3486.7	3616.6	3642.0	4038.2	4309.7
35°	4237.9	4251.6	4306.6	4266.4	4054.0	3736.0	3595.5	3649.4	3669.4	4039.2	4285.4
37.5°	4440.7	4477.7	4606.6	4641.5	4441.8	4039.2	3771.9	3742.3	3750.8	4091.0	4294.9
40°	4685.9	4749.3	4915.1	5057.8	4926.8	4433.3	4072.0	3914.6	3925.1	4215.7	4357.3
42.5°	4996.5	5040.9	5263.8	5457.2	5436.0	4954.2	4435.5	4196.7	4202.0	4464.0	4531.6
45°	5359.9	5423.3	5673.7	5964.3	6014.0	5543.8	4960.6	4623.5	4620.4	4849.6	4857.0
47.5°	5824.8	5863.9	6112.2	6429.2	6629.9	6284.4	5597.7	5236.3	5202.5	5411.7	5351.5
50°	6252.7	6314.0	6502.1	6848.6	7348.4	7151.9	6435.5	6030.9	5951.6	6147.1	6045.7
52.5°	6432.4	6496.8	6655.3	7085.3	7964.4	8274.0	7499.5	6978.6	6846.5	6996.6	6959.6
55°	6120.7	6204.1	6352.1	6875.1	8234.9	9568.2	8934.3	8074.3	7978.1	7913.7	7924.2
57.5°	5282.8	5362.1	5561.8	6138.6	7911.6	10507.5	10983.0	9482.7	9276.6	8979.7	9030.5
60°	4021.3	4070.9	4174.5	4813.7	6953.2	10751.6	13309.5	11263.0	11132.0	10041.6	10077.5
62.5°	2855.9	2911.9	2983.7	3302.8	5090.5	10063.8	15131.1	13749.1	13281.0	11141.5	11106.6
65°	2319.2	2281.1	2367.8	2516.7	2986.9	7799.6	15541.0	17199.8	16555.3	12590.0	12106.1
67.5°	1907.1	1866.9	1952.5	2217.7	2271.6	4527.4	14063.9	19439.7	19310.8	14165.4	13121.5
69°	1688.4	1667.3	1742.3	2044.5	2180.7	3215.1	12251.9	19751.4	19782.0	15094.1	13277.8
70°	1521.5	1529.9	1602.8	1956.8	2139.5	2650.9	10471.6	19321.4	19581.3	15557.9	13108.8
72.5°	1120.0	1137.9	1239.3	1620.8	2100.4	2249.4	6231.6	16876.5	17336.1	15585.4	11992.0
75°	782.9	774.5	864.3	1220.3	1984.2	2229.3	3659.9	13051.7	13572.6	13471.2	10076.4
77.5°	512.4	526.2	598.0	862.2	1669.4	2212.4	2385.7	9259.7	9597.8	9009.3	5960.1
80°	361.3	360.3	400.4	588.5	1238.3	2125.8	1953.6	5836.5	5750.9	3540.5	1767.6
82.5°	207.1	221.9	268.4	414.2	828.3	1871.2	1797.2	2791.4	2548.4	1009.0	597.0
85°	115.2	120.4	159.5	250.4	483.9	1409.5	1569.0	1270.0	1198.1	421.6	256.7
87.5°	37.0	40.1	66.6	126.8	219.8	665.6	888.6	586.4	541.0	152.1	103.5
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°	4405.9	4405.9	4405.9	4405.9	4405.9	4405.9	4405.9	4405.9	4405.9	4405.9	4405.9
2.5°	4412.2	4424.9	4391.1	4358.3	4328.7	4287.5	4250.6	4219.9	4198.8	4195.6	4185.0
5°	4427.0	4428.1	4363.6	4277.0	4192.4	4099.5	4003.3	3934.6	3870.2	3834.3	3816.3
7.5°	4437.6	4428.1	4311.8	4171.3	4008.6	3839.6	3670.5	3535.3	3430.7	3389.5	3405.3
10°	4433.3	4403.8	4233.7	4008.6	3771.9	3519.4	3276.4	3086.2	2911.9	2822.1	2824.2
12.5°	4410.1	4361.5	4117.4	3825.8	3478.2	3140.1	2768.2	2511.5	2309.6	2190.3	2153.3
15°	4390.0	4305.5	3981.1	3577.5	3145.4	2662.5	2209.3	1892.3	1723.3	1629.2	1628.2
17.5°	4368.9	4251.6	3832.2	3314.4	2762.9	2141.7	1666.2	1424.2	1345.0	1354.5	1338.7
20°	4346.7	4188.2	3676.8	3021.8	2297.0	1597.5	1247.8	1149.5	1171.7	1215.0	1221.4
22.5°	4321.3	4120.6	3509.9	2699.5	1806.7	1202.4	1012.2	997.4	1054.5	1122.1	1131.6
25°	4282.3	4036.1	3299.6	2362.5	1393.6	968.9	886.5	897.0	953.0	1010.1	1016.4
27.5°	4227.3	3931.5	3087.3	1942.0	1047.1	831.5	810.4	824.1	851.6	886.5	894.9
30°	4153.4	3813.1	2843.2	1578.5	838.9	762.8	754.4	761.8	777.6	792.4	796.6
32.5°	4079.4	3699.0	2597.0	1208.7	748.0	717.4	709.0	709.0	709.0	711.1	712.1
35°	4010.7	3591.3	2332.9	941.4	700.5	681.5	669.9	657.2	655.1	647.7	647.7
37.5°	3972.7	3493.0	2051.8	788.2	665.6	651.9	636.1	614.9	603.3	604.4	602.2
40°	3980.1	3428.5	1796.2	701.6	637.1	622.3	598.0	573.7	566.3	566.3	564.2
42.5°	4063.5	3407.4	1551.0	656.1	609.6	592.7	562.1	539.9	535.7	534.6	536.7
45°	4255.8	3459.2	1331.3	626.5	586.4	561.0	530.4	510.3	506.1	506.1	505.0
47.5°	4630.9	3627.2	1173.8	607.5	569.5	536.7	505.0	485.0	477.6	475.5	475.5
50°	5214.1	3991.7	1056.6	590.6	548.4	514.5	481.8	458.5	446.9	445.9	444.8
52.5°	6024.5	4560.1	1011.1	577.9	525.1	491.3	455.4	433.2	418.4	415.2	413.1
55°	6972.3	5353.6	1073.5	568.4	500.8	464.9	427.9	404.7	390.9	384.6	383.5
57.5°	8070.0	6306.6	1310.1	555.8	478.6	436.4	400.4	377.2	362.4	355.0	352.9
60°	9055.8	7286.1	1723.3	548.4	459.6	405.7	368.7	347.6	333.9	326.5	325.4
62.5°	10138.8	8220.1	2216.7	568.4	451.2	376.1	339.2	320.1	308.5	301.1	301.1
65°	11295.7	9155.1	2543.1	636.1	463.8	352.9	307.5	291.6	281.0	275.8	274.7
67.5°	12075.5	9478.4	2095.2	705.8	495.5	327.5	276.8	264.1	257.8	252.5	252.5
69°	11990.9	9069.5	1545.8	723.7	505.0	314.9	259.9	250.4	242.0	239.8	237.7
70°	11723.6	8603.6	1295.3	712.1	497.6	303.2	249.3	237.7	230.3	228.2	227.2
72.5°	10442.0	7461.5	964.6	619.1	423.7	263.1	220.8	210.3	203.9	200.7	200.7
75°	8675.4	6098.5	753.3	492.4	331.8	221.9	189.1	180.7	175.4	173.3	172.2
77.5°	4862.3	3405.3	541.0	385.6	251.5	179.6	158.5	151.1	145.8	143.7	143.7
80°	1354.5	973.1	318.0	254.6	171.2	136.3	125.7	120.4	113.1	107.8	110.9
82.5°	510.3	421.6	181.7	153.2	108.8	90.9	87.7	83.5	80.3	72.9	72.9
85°	248.3	205.0	116.2	81.4	60.2	47.5	45.4	43.3	41.2	35.9	37.0
87.5°	85.6	90.9	50.7	29.6	18.0	11.6	9.5	5.3	5.3	5.3	5.3
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)