

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: P452811

Luminaire Tested: **GALN-SA3D-740-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452811  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-740-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22605 lumens  
Efficiency: N/A  
Efficacy: 122.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

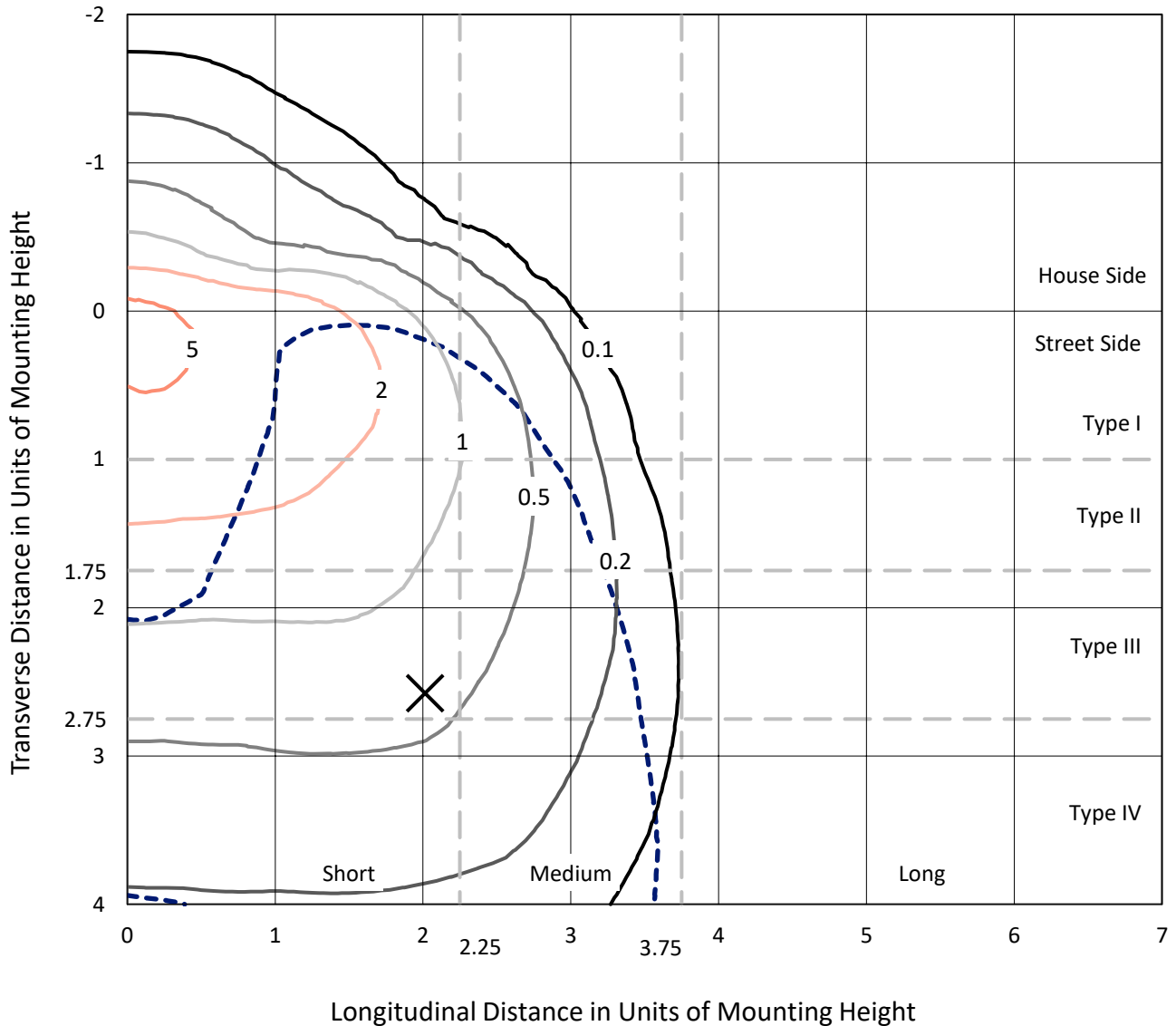
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

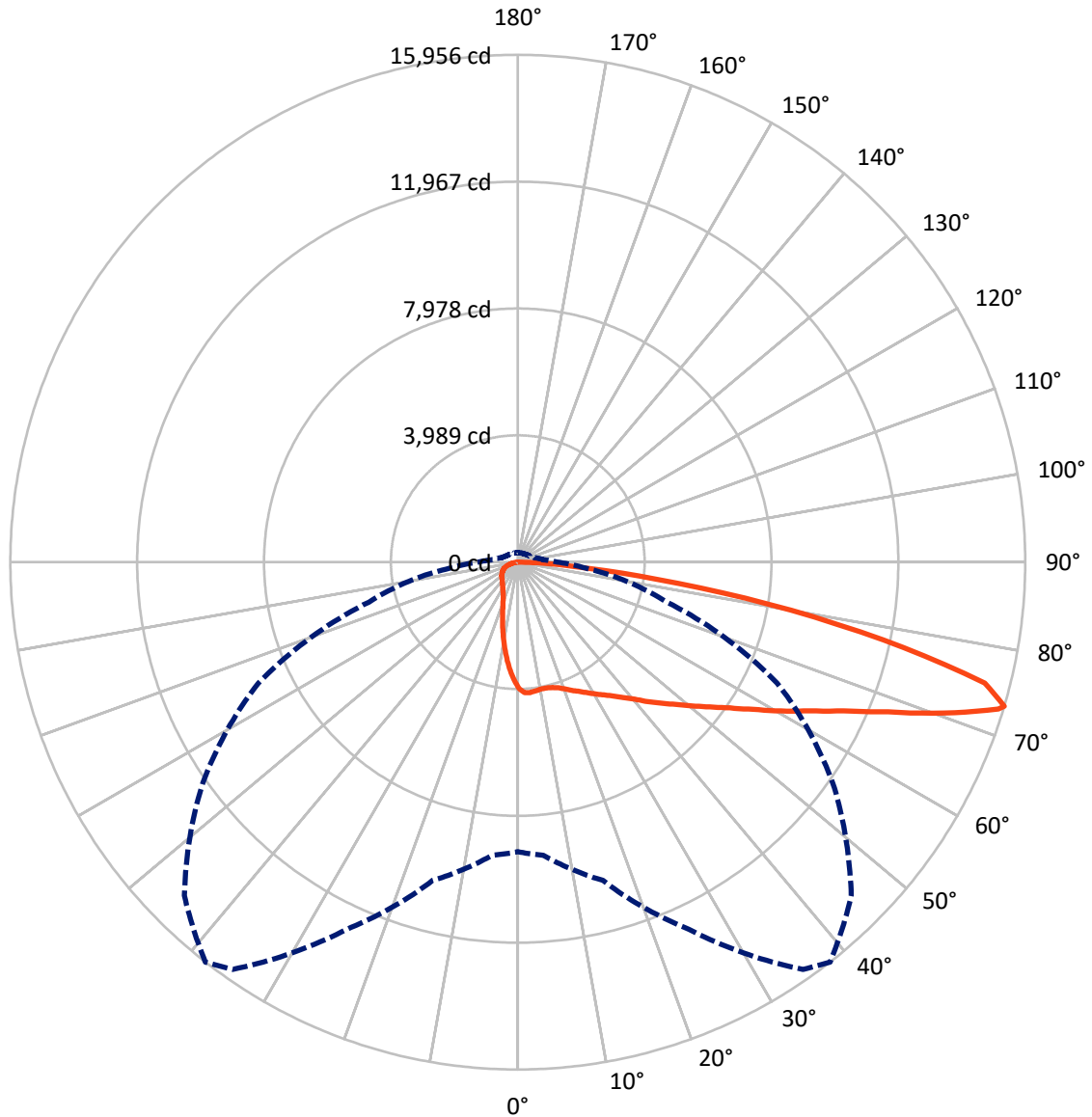
× Max cd  
 - - - 1/2 Max cd



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 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3038.8	0.0	3038.8
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	19566.2	0.0	19566.2
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	22605.0	0.0	22605.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	346.6	1.5
10°-20°	888.9	3.9
20°-30°	1384.2	6.1
30°-40°	2030.4	9.0
40°-50°	3011.8	13.3
50°-60°	4267.1	18.9
60°-70°	5413.0	23.9
70°-80°	4505.9	19.9
80°-90°	757.1	3.3
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°	22605.0	100.0
0°-180°	22605.0	100.0

**Coefficient of Utilization**



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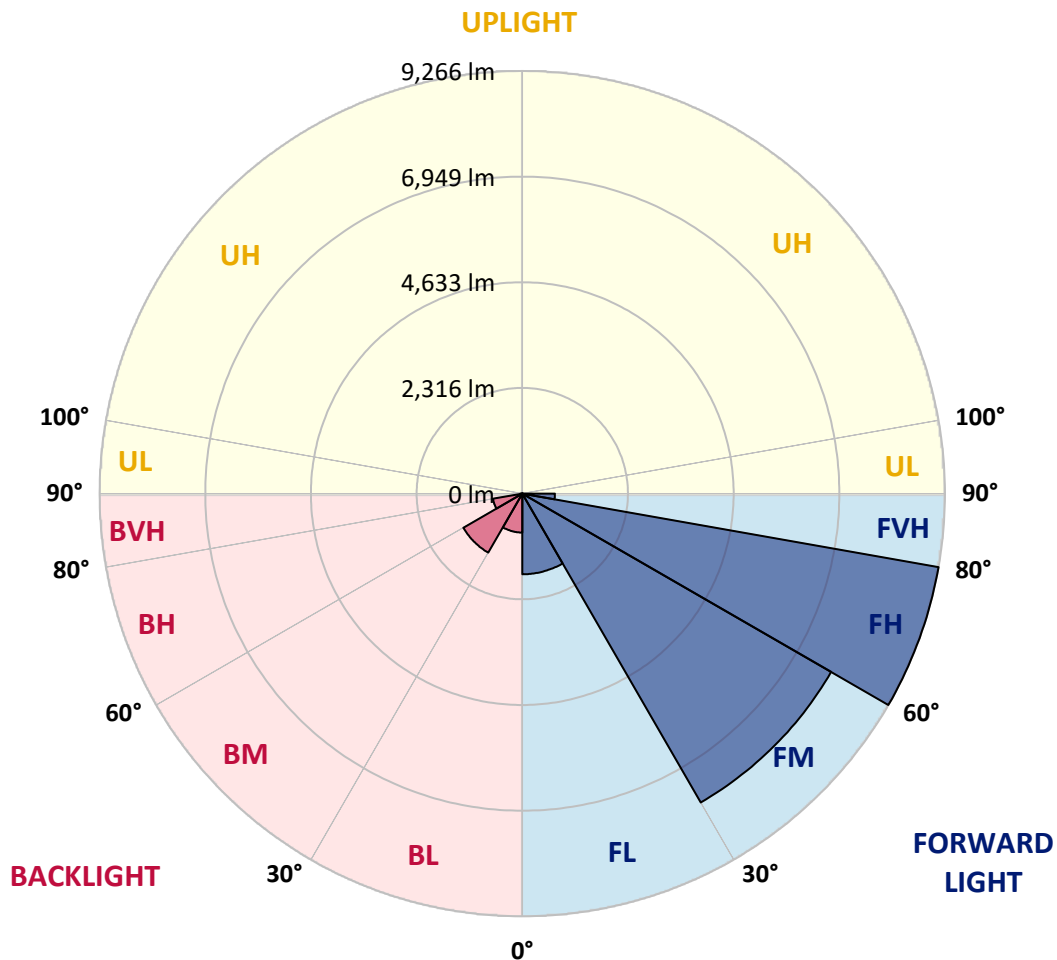
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1767.1	7.8			
FM	(30°-60°)	7817.4	34.6			
FH	(60°-80°)	9265.7	41.0			G4/12000
FVH	(80°-90°)	716.0	3.2			G4/750
BL	(0°-30°)	852.7	3.8	B2/1000		
BM	(30°-60°)	1491.9	6.6	B2/2500		
BH	(60°-80°)	653.2	2.9	B2/1000		G2/1000
BVH	(80°-90°)	41.1	0.2			G1/100
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°	35°	38°	45°	55°	65°	75°	85°
0°	3971.3	3971.3	3971.3	3971.3	3971.3	3971.3	3971.3	3971.3	3971.3	3971.3	3971.3
2.5°	4130.9	4151.3	4141.1	4127.1	4118.1	4109.2	4096.4	4059.4	4030.0	3998.1	3948.3
5°	4161.5	4174.3	4165.3	4147.5	4127.1	4118.1	4093.9	4045.4	3998.1	3944.5	3870.5
7.5°	4143.6	4148.8	4138.5	4116.8	4099.0	4082.4	4054.3	4000.7	3943.2	3878.1	3781.1
10°	4079.8	4099.0	4099.0	4081.1	4063.2	4054.3	4026.2	3975.1	3922.8	3848.8	3733.9
12.5°	4027.5	4047.9	4064.5	4059.4	4058.1	4058.1	4036.4	3998.1	3936.8	3866.6	3730.0
15°	3991.7	4016.0	4051.7	4072.2	4084.9	4088.8	4079.8	4046.6	3984.1	3902.4	3745.4
17.5°	3984.1	4013.4	4078.5	4123.2	4156.4	4155.1	4152.6	4106.6	4037.7	3953.4	3764.5
20°	4018.5	4056.8	4147.5	4217.7	4266.2	4257.3	4243.2	4183.2	4102.8	4008.3	3782.4
22.5°	4121.9	4161.5	4261.1	4337.7	4384.9	4384.9	4342.8	4263.6	4178.1	4072.2	3806.6
25°	4270.0	4313.4	4419.4	4497.2	4519.0	4502.4	4460.2	4364.5	4266.2	4164.1	3857.7
27.5°	4451.3	4503.6	4601.9	4667.0	4660.6	4647.9	4604.5	4481.9	4383.6	4290.5	3944.5
30°	4677.2	4715.5	4817.7	4833.0	4810.0	4807.4	4746.2	4623.6	4531.7	4460.2	4068.3
32.5°	4890.4	4924.9	5006.6	5013.0	4972.1	4977.2	4919.8	4807.4	4755.1	4729.6	4276.4
35°	5116.4	5134.2	5204.5	5196.8	5170.0	5166.2	5143.2	5035.9	5052.5	5098.5	4571.3
37.5°	5305.3	5341.0	5380.6	5387.0	5385.7	5398.5	5413.8	5362.7	5458.5	5602.7	4958.1
40°	5478.9	5509.5	5568.3	5588.7	5638.5	5664.0	5716.3	5717.6	5938.5	6175.9	5434.2
42.5°	5596.4	5648.7	5758.5	5795.5	5916.8	5993.4	6071.2	6154.2	6474.6	6779.7	5995.9
45°	5698.5	5767.4	5950.0	6064.8	6229.5	6322.7	6487.4	6661.0	7121.8	7521.4	6566.5
47.5°	5852.9	5914.2	6123.6	6326.5	6575.5	6682.7	6929.1	7188.2	7790.7	8228.6	7112.9
50°	6067.4	6104.4	6317.6	6648.2	6966.1	7103.9	7429.5	7803.5	8505.6	8926.8	7592.9
52.5°	6341.8	6357.2	6526.9	6967.4	7386.1	7557.1	7988.6	8425.2	9131.1	9533.2	7973.3
55°	6666.1	6640.6	6773.3	7305.6	7866.0	8089.4	8552.8	9054.5	9834.5	10023.4	8250.3
57.5°	6986.5	6946.9	7052.9	7716.7	8458.4	8727.7	9267.7	9703.0	10462.5	10481.7	8444.3
60°	7326.1	7296.7	7423.1	8199.2	9184.7	9503.8	10003.0	10375.7	11070.2	10800.8	8474.9
62.5°	7674.6	7627.3	7807.3	8741.7	10003.0	10292.7	10776.5	11090.6	11666.3	10919.5	8180.1
65°	8012.8	7991.1	8269.4	9386.4	10934.8	11264.2	11734.0	11947.1	12143.7	10740.8	7448.6
67.5°	8372.8	8416.2	8860.5	10246.8	12150.1	12563.7	13070.5	12870.1	12280.3	9894.5	6272.9
70°	8921.7	8949.8	9636.6	11374.0	13716.4	14215.5	14460.6	13198.1	11621.6	8287.3	4715.5
72.5°	9157.9	9281.7	10329.8	12557.3	15495.9	15801.0	14927.9	12466.7	9681.3	5629.5	2477.8
73°	9105.6	9253.6	10361.7	12737.3	15635.1	15955.5	14828.3	12090.1	8999.6	4848.3	2124.2
75°	8453.2	8635.8	9946.8	12586.7	15364.4	15173.0	13227.5	10304.2	6081.4	2204.6	967.6
77.5°	6669.9	6722.3	7881.4	10163.8	12099.0	11744.2	9899.6	6440.1	2484.1	819.5	548.9
80°	3345.8	3538.6	4442.4	5822.3	8090.7	7974.5	6248.7	3045.8	1035.3	481.3	363.8
82.5°	1609.7	1746.3	2163.7	2839.0	4470.4	4364.5	3094.3	1664.6	657.4	280.8	214.5
85°	1036.6	1138.7	1377.4	1354.4	1838.2	1755.2	1390.2	1259.9	389.3	146.8	149.4
87.5°	684.2	749.3	898.7	718.7	668.9	605.1	614.0	709.8	76.6	56.2	20.4
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°	3971.3	3971.3	3971.3	3971.3	3971.3	3971.3	3971.3	3971.3	3971.3	3971.3	3971.3
2.5°	3927.9	3911.3	3856.4	3802.8	3751.8	3703.2	3671.3	3629.2	3601.1	3608.8	3620.3
5°	3829.6	3792.6	3695.6	3601.1	3511.8	3405.8	3320.3	3251.3	3199.0	3179.9	3176.0
7.5°	3726.2	3663.7	3524.5	3362.4	3210.5	3079.0	2927.1	2851.8	2763.7	2733.1	2722.9
10°	3663.7	3579.4	3384.1	3158.2	2929.7	2711.4	2546.7	2412.7	2291.4	2268.4	2256.9
12.5°	3645.8	3534.7	3271.8	2980.7	2676.9	2408.8	2165.0	1988.8	1871.4	1844.6	1805.0
15°	3635.6	3497.7	3167.1	2802.0	2416.5	2089.7	1833.1	1627.6	1520.4	1448.9	1450.1
17.5°	3626.6	3455.6	3049.7	2606.7	2191.8	1815.2	1531.8	1346.7	1248.5	1210.2	1206.3
20°	3613.9	3405.8	2914.3	2401.2	1935.2	1565.0	1308.5	1170.6	1104.2	1072.3	1071.0
22.5°	3608.8	3357.3	2781.6	2191.8	1708.0	1372.3	1160.4	1063.4	1021.2	999.5	999.5
25°	3621.5	3322.8	2642.4	1992.7	1506.3	1207.6	1058.3	991.9	967.6	956.1	952.3
27.5°	3661.1	3307.5	2504.6	1793.5	1321.2	1095.3	989.3	943.4	925.5	916.6	917.8
30°	3736.4	3306.2	2369.3	1597.0	1183.4	1009.7	934.4	902.5	888.5	883.4	882.1
32.5°	3857.7	3334.3	2236.5	1434.8	1067.2	938.3	883.4	860.4	854.0	850.2	848.9
35°	4063.2	3413.5	2105.0	1286.8	977.8	874.4	834.9	823.4	814.4	818.3	819.5
37.5°	4340.2	3550.1	1979.9	1170.6	910.2	827.2	794.0	783.8	778.7	782.5	786.3
40°	4711.7	3746.6	1875.2	1077.4	861.7	787.6	758.3	749.3	744.2	750.6	751.9
42.5°	5121.5	3973.9	1788.4	1004.6	822.1	754.4	726.4	716.1	712.3	716.1	717.4
45°	5542.7	4238.1	1743.8	952.3	788.9	730.2	700.8	689.3	680.4	677.8	681.7
47.5°	5957.6	4467.9	1742.5	920.4	762.1	708.5	676.6	663.8	652.3	645.9	644.7
50°	6295.9	4650.4	1773.1	906.3	739.1	684.2	652.3	639.5	624.2	611.5	614.0
52.5°	6551.2	4769.2	1787.2	900.0	726.4	658.7	626.8	615.3	597.4	580.8	580.8
55°	6715.9	4797.2	1752.7	893.6	716.1	631.9	597.4	587.2	569.3	552.7	552.7
57.5°	6772.0	4710.4	1628.9	878.3	705.9	608.9	568.1	559.1	545.1	528.5	525.9
60°	6641.8	4416.8	1411.9	832.3	685.5	584.7	536.1	532.3	527.2	513.2	511.9
62.5°	6140.2	3793.9	1175.7	772.3	651.0	559.1	506.8	513.2	517.0	509.3	508.1
65°	5305.3	3080.3	1004.6	689.3	605.1	523.4	474.9	491.5	501.7	501.7	499.1
67.5°	4303.2	2365.4	846.3	617.8	547.6	474.9	439.1	451.9	459.6	457.0	463.4
70°	3058.6	1602.1	689.3	536.1	474.9	420.0	393.2	393.2	388.1	385.5	385.5
72.5°	1483.3	915.3	559.1	448.1	404.7	358.7	337.0	328.1	317.9	316.6	310.2
73°	1239.5	820.8	533.6	431.5	388.1	349.8	325.5	311.5	305.1	300.0	298.7
75°	754.4	623.0	445.5	363.8	330.6	301.3	279.6	266.8	260.4	256.6	255.3
77.5°	496.6	464.7	345.9	278.3	252.8	234.9	225.9	213.2	209.4	204.2	204.2
80°	370.2	354.9	247.6	196.6	181.3	166.0	163.4	160.8	150.6	144.2	141.7
82.5°	238.7	252.8	168.5	131.5	114.9	102.1	103.4	107.2	97.0	88.1	85.5
85°	169.8	182.5	102.1	60.0	48.5	42.1	47.2	42.1	43.4	34.5	28.1
87.5°	28.1	48.5	17.9	7.7	3.8	2.6	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)