

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: P457698

Luminaire Tested: **GALN-SA9A-740-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457698  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9A-740-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41366 lumens  
Efficiency: N/A  
Efficacy: 151.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

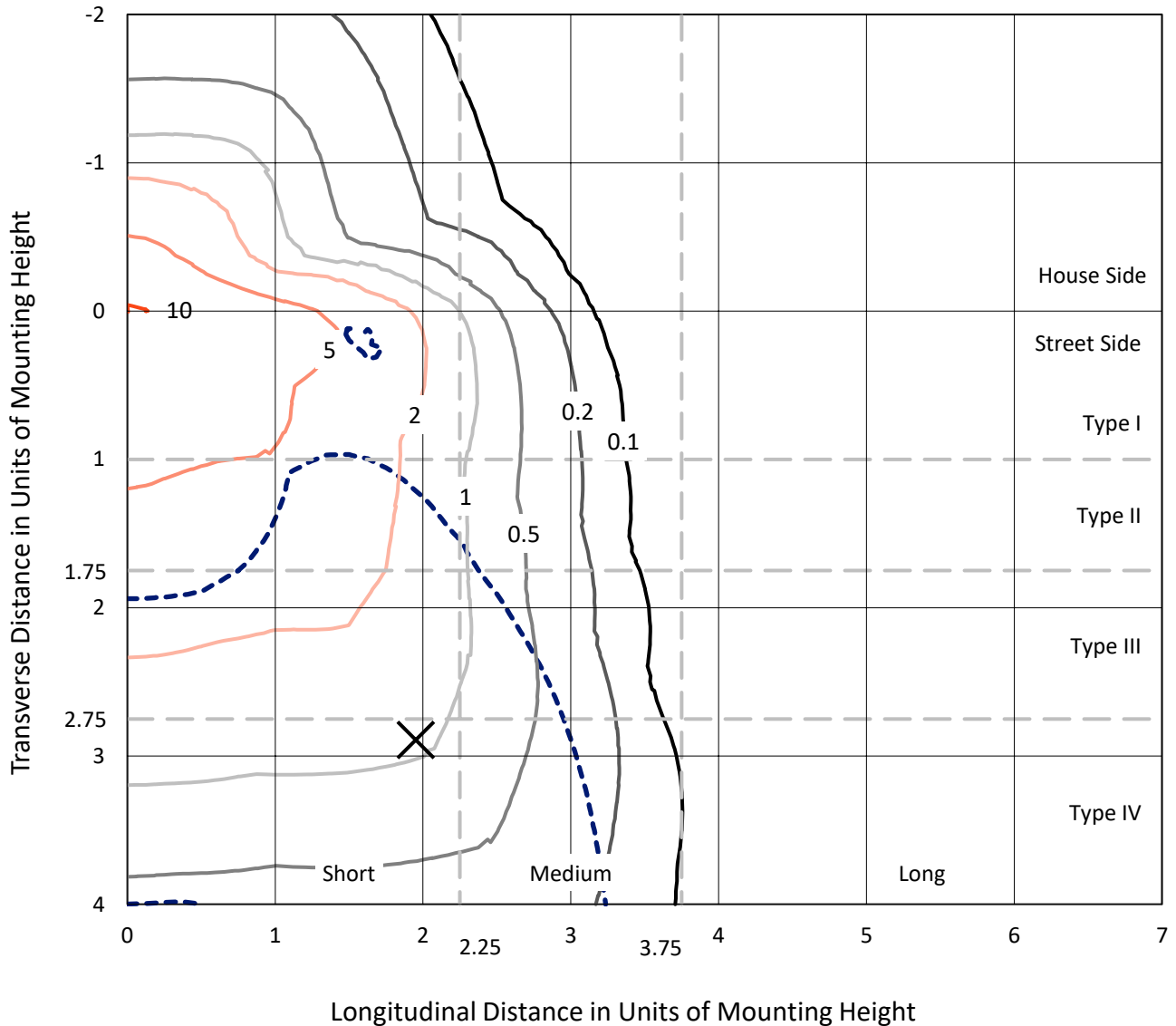
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

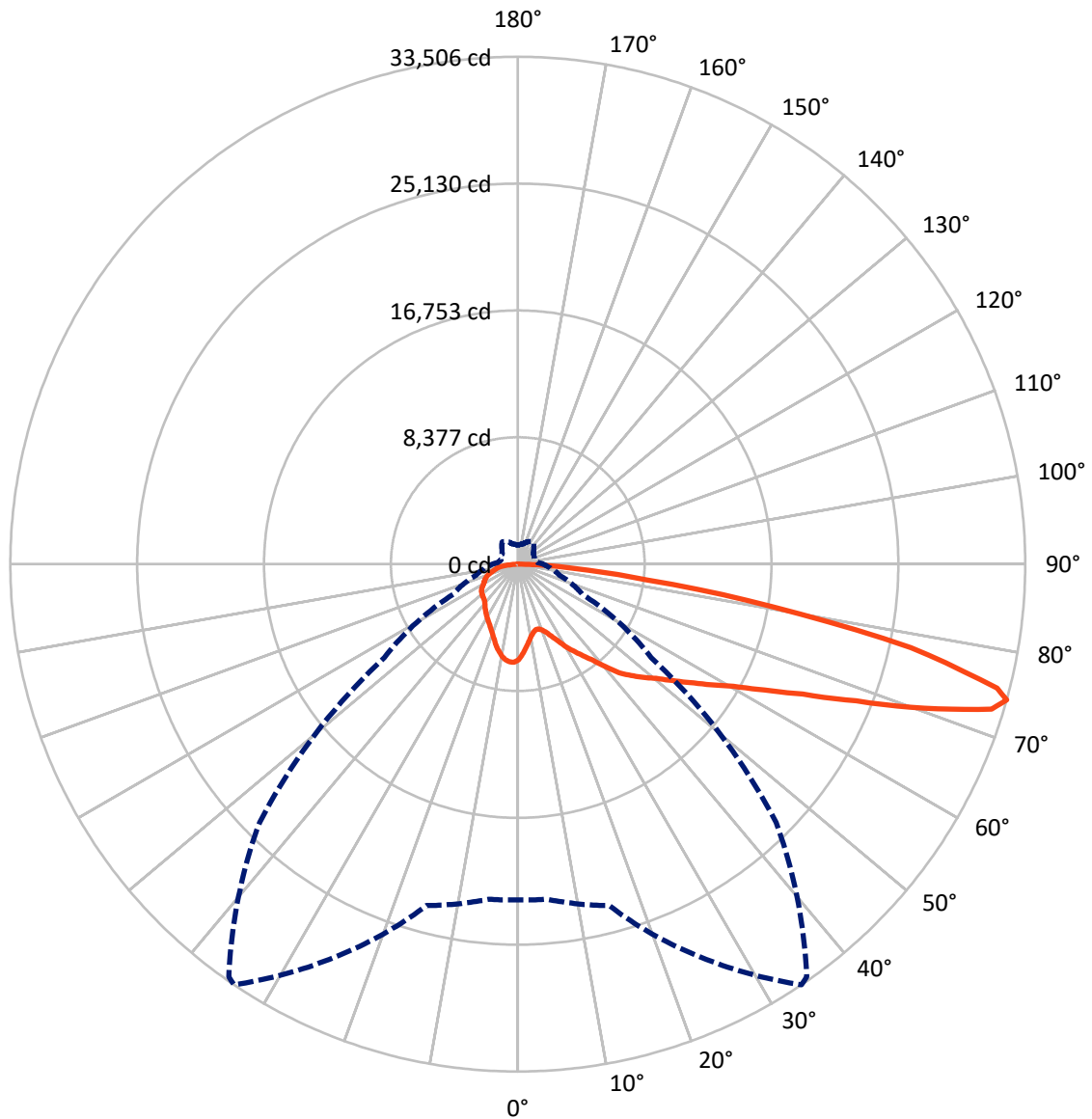
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8803.0	0.0	8803.0
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	32563.0	0.0	32563.0
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	41366.0	0.0	41366.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	574.4	1.4
10°-20°	1572.4	3.8
20°-30°	2592.4	6.3
30°-40°	3883.2	9.4
40°-50°	5645.1	13.6
50°-60°	7884.8	19.1
60°-70°	9871.4	23.9
70°-80°	8162.8	19.7
80°-90°	1179.5	2.9
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°	41366.0	100.0
0°-180°	41366.0	100.0

**Coefficient of Utilization**



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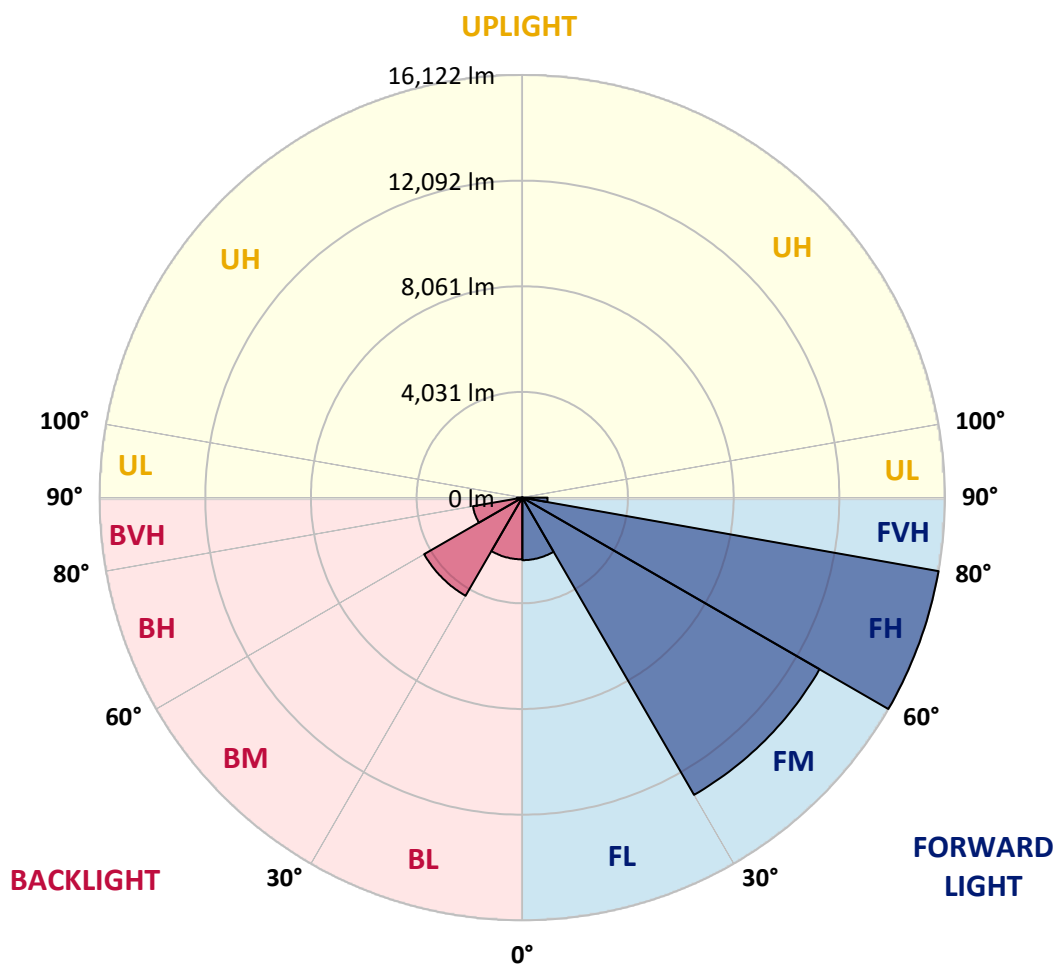
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2384.6	5.8			
FM	(30°-60°)	13089.9	31.6			
FH	(60°-80°)	16122.3	39.0			G5
FVH	(80°-90°)	966.3	2.3			G5
BL	(0°-30°)	2354.7	5.7	B3/2500		
BM	(30°-60°)	4323.2	10.5	B3/5000		
BH	(60°-80°)	1911.9	4.6	B3/2500		G3/2500
BVH	(80°-90°)	213.2	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	6315.8	6315.8	6315.8	6315.8	6315.8	6315.8	6315.8	6315.8	6315.8	6315.8	6315.8
2.5°	5836.8	5866.6	5882.6	5939.9	5953.7	5972.0	6020.1	6084.3	6166.8	6240.1	6304.3
5°	5351.0	5396.8	5424.3	5474.7	5573.3	5582.4	5710.8	5857.4	6024.7	6180.6	6308.9
7.5°	4890.4	4940.8	4963.7	5055.4	5186.0	5206.6	5394.5	5626.0	5905.6	6141.6	6338.7
10°	4544.3	4569.5	4620.0	4688.7	4844.5	4858.3	5103.5	5412.9	5774.9	6123.3	6389.1
12.5°	4356.4	4370.2	4381.6	4455.0	4608.5	4629.1	4885.8	5236.4	5671.8	6137.0	6471.6
15°	4383.9	4388.5	4338.1	4351.8	4475.6	4505.4	4759.7	5119.5	5607.7	6171.4	6595.4
17.5°	4615.4	4599.3	4475.6	4411.4	4498.5	4512.2	4734.5	5073.7	5577.9	6235.6	6723.7
20°	4979.7	4956.8	4743.7	4601.6	4652.0	4663.5	4817.0	5108.1	5607.7	6341.0	6923.1
22.5°	5433.5	5424.3	5101.2	4929.3	4927.0	4927.0	5007.2	5231.8	5697.0	6485.4	7131.6
25°	6068.3	6020.1	5598.5	5376.2	5314.3	5309.7	5300.6	5435.8	5811.6	6638.9	7379.1
27.5°	6719.1	6636.6	6260.8	5919.3	5786.4	5770.4	5710.8	5724.5	5958.3	6813.1	7661.0
30°	7303.5	7250.8	6897.8	6519.7	6361.6	6324.9	6159.9	6084.3	6203.5	7127.0	8110.1
32.5°	7750.3	7718.3	7443.3	7099.5	6865.8	6858.9	6618.3	6556.4	6586.2	7507.4	8623.5
35°	8112.4	8123.9	7984.1	7686.2	7418.1	7379.1	7218.7	7140.8	7053.7	8057.4	9269.7
37.5°	8607.4	8632.6	8623.5	8366.8	8039.1	8048.3	8011.6	7883.3	7651.8	8671.6	9987.0
40°	9152.8	9171.2	9168.9	9070.3	8898.5	8907.6	8893.9	8747.2	8401.2	9453.0	10784.5
42.5°	9906.8	9819.7	9592.8	9691.4	9792.2	9835.7	9929.7	9789.9	9315.5	10287.2	11533.8
45°	10750.1	10585.1	10071.8	10117.6	10491.1	10573.6	11091.6	10899.1	10307.8	11245.1	12416.1
47.5°	11281.8	11119.1	10685.9	10676.8	11171.8	11252.0	12168.6	12097.6	11210.7	12278.6	13493.2
50°	11756.1	11733.2	11245.1	11362.0	11845.5	11964.7	13341.9	13275.5	12111.3	13497.8	14666.5
52.5°	12459.7	12274.0	11884.5	12125.1	12764.5	12920.3	14506.1	14311.3	12938.6	14574.9	15805.5
55°	12775.9	12732.4	12709.5	12918.0	13795.7	13908.0	15638.2	15191.3	13644.4	15486.9	16671.7
57.5°	13621.5	13541.3	13768.2	13910.3	15010.3	15182.1	16820.7	16110.3	14263.2	16211.1	17093.4
60°	14716.9	14673.4	14881.9	15138.6	16366.9	16628.2	18168.2	16894.0	14760.5	16575.5	16861.9
62.5°	16353.2	16348.6	16309.6	16859.6	18289.6	18530.2	19715.0	17657.1	14838.4	16302.8	15665.7
65°	18699.8	18617.3	18278.2	18878.6	20682.1	20964.0	21326.0	18083.4	14368.6	14902.6	13190.7
67.5°	21154.2	21149.6	20874.6	21653.7	24117.3	24408.3	23340.4	17989.4	13064.7	12072.4	9368.2
70°	23189.1	23090.6	23441.2	25517.5	28505.8	28842.6	25102.7	16882.5	10406.4	7972.6	5566.4
72.5°	23677.3	23681.8	24410.6	28496.6	32720.1	32772.8	25737.5	13683.4	6964.3	4397.7	2784.3
74°	22173.9	22212.9	23342.7	28645.5	33506.1	33267.8	24115.0	10754.7	4709.3	2871.4	2007.5
75°	20239.8	19994.6	21628.5	27653.3	32690.3	32433.6	22215.2	8630.3	3593.3	2293.9	1757.7
77.5°	10821.1	11070.9	13591.7	20636.3	26557.9	26262.2	15063.0	4138.7	1941.0	1597.3	1265.0
80°	3852.3	4248.7	5972.0	10798.2	17026.9	17118.6	7188.9	1897.5	1365.8	1177.9	893.7
82.5°	1572.1	1615.6	2564.3	4791.8	8646.4	8728.9	2935.6	1127.5	976.2	811.2	534.0
85°	614.2	632.5	1134.4	2154.1	3689.5	3930.2	1015.2	595.8	600.4	465.2	272.7
87.5°	206.2	233.7	465.2	717.3	1253.5	1228.3	295.6	176.5	215.4	201.7	84.8
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°	6315.8	6315.8	6315.8	6315.8	6315.8	6315.8	6315.8	6315.8	6315.8	6315.8	6315.8
2.5°	6336.4	6379.9	6409.7	6441.8	6471.6	6480.8	6473.9	6494.5	6496.8	6499.1	6501.4
5°	6373.1	6432.6	6489.9	6522.0	6535.8	6524.3	6485.4	6464.7	6446.4	6432.6	6437.2
7.5°	6423.5	6508.3	6561.0	6574.7	6538.1	6485.4	6389.1	6313.5	6265.4	6233.3	6231.0
10°	6501.4	6583.9	6627.4	6588.5	6487.6	6359.3	6208.1	6066.0	5958.3	5926.2	5923.9
12.5°	6599.9	6693.9	6691.6	6577.0	6400.6	6171.4	5926.2	5761.2	5614.5	5541.2	5571.0
15°	6728.3	6799.3	6732.8	6526.6	6247.0	5933.1	5630.6	5406.0	5241.0	5163.1	5167.7
17.5°	6877.2	6939.1	6762.6	6437.2	6031.6	5628.3	5277.7	5064.5	4933.9	4876.6	4872.0
20°	7062.8	7081.2	6762.6	6281.4	5754.3	5273.1	4938.5	4789.5	4716.2	4686.4	4695.6
22.5°	7262.2	7225.6	6726.0	6061.4	5389.9	4901.8	4677.2	4610.8	4574.1	4569.5	4574.1
25°	7486.8	7383.7	6650.4	5763.5	5009.5	4581.0	4450.4	4461.8	4468.7	4468.7	4484.7
27.5°	7761.8	7555.5	6524.3	5387.7	4565.0	4283.1	4246.4	4326.6	4363.3	4370.2	4381.6
30°	8123.9	7743.5	6315.8	4917.9	4186.8	4015.0	4079.1	4186.8	4228.1	4253.3	4248.7
32.5°	8554.7	7949.7	6033.9	4448.1	3882.0	3827.0	3905.0	4015.0	4060.8	4074.5	4056.2
35°	9061.2	8183.5	5662.7	4008.1	3616.2	3648.3	3740.0	3774.3	3815.6	3815.6	3824.8
37.5°	9606.6	8371.4	5208.9	3604.8	3410.0	3526.8	3593.3	3561.2	3542.9	3520.0	3531.4
40°	10161.1	8511.2	4620.0	3206.0	3203.7	3400.8	3419.1	3327.5	3254.1	3231.2	3219.8
42.5°	10644.7	8598.2	4088.3	2896.6	3008.9	3277.1	3290.8	3144.1	3027.3	2958.5	2935.6
45°	11215.3	8699.1	3568.1	2640.0	2827.9	3178.5	3212.9	3015.8	2843.9	2699.6	2662.9
47.5°	11996.8	8928.2	3157.9	2440.6	2697.3	3116.6	3164.8	2910.4	2683.5	2495.6	2465.8
50°	12879.0	9242.2	2839.3	2305.4	2596.4	3061.6	3121.2	2802.7	2534.6	2326.0	2303.1
52.5°	13688.0	9411.8	2564.3	2183.9	2497.9	2960.8	3063.9	2724.8	2387.9	2156.4	2135.8
55°	14130.3	9136.8	2293.9	2064.8	2362.7	2830.2	2983.7	2617.1	2245.8	2067.1	2037.3
57.5°	14189.9	8568.5	2048.7	1936.4	2220.6	2669.8	2834.8	2486.4	2154.1	2005.2	1980.0
60°	13729.2	7720.5	1858.5	1831.0	2076.2	2488.7	2667.5	2371.9	2060.2	1936.4	1911.2
62.5°	12583.4	6799.3	1725.6	1734.8	1929.6	2298.5	2543.7	2261.9	1970.8	1860.8	1837.9
65°	10612.6	5612.2	1597.3	1636.2	1798.9	2149.6	2431.4	2170.2	1881.4	1803.5	1782.9
67.5°	7372.2	4051.6	1491.9	1533.1	1675.2	1998.3	2300.8	2071.6	1780.6	1739.4	1707.3
70°	4081.4	2493.3	1368.1	1416.2	1546.9	1828.7	2154.1	1922.7	1633.9	1615.6	1569.8
72.5°	2145.0	1588.1	1228.3	1281.0	1372.7	1611.0	1929.6	1760.0	1489.6	1411.7	1352.1
74°	1675.2	1301.7	1134.4	1189.4	1251.2	1482.7	1796.6	1643.1	1386.4	1294.8	1248.9
75°	1459.8	1159.6	1054.2	1125.2	1180.2	1395.6	1693.5	1560.6	1329.2	1242.1	1200.8
77.5°	1031.2	868.5	861.7	946.4	976.2	1223.7	1526.2	1420.8	1184.8	1093.1	1054.2
80°	724.2	650.8	682.9	735.6	776.9	1081.7	1416.2	1228.3	971.7	863.9	850.2
82.5°	472.1	426.2	488.1	536.2	550.0	797.5	1143.5	932.7	708.1	575.2	534.0
85°	217.7	213.1	279.6	272.7	270.4	389.6	678.3	545.4	407.9	304.8	286.5
87.5°	55.0	52.7	68.7	57.3	68.7	59.6	61.9	16.0	2.3	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)