

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: P453010

Luminaire Tested: **GALN-SA4A-730-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453010  
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-SA4A-730-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 615mA 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: 16446 lumens  
Efficiency: N/A  
Efficacy: 135.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

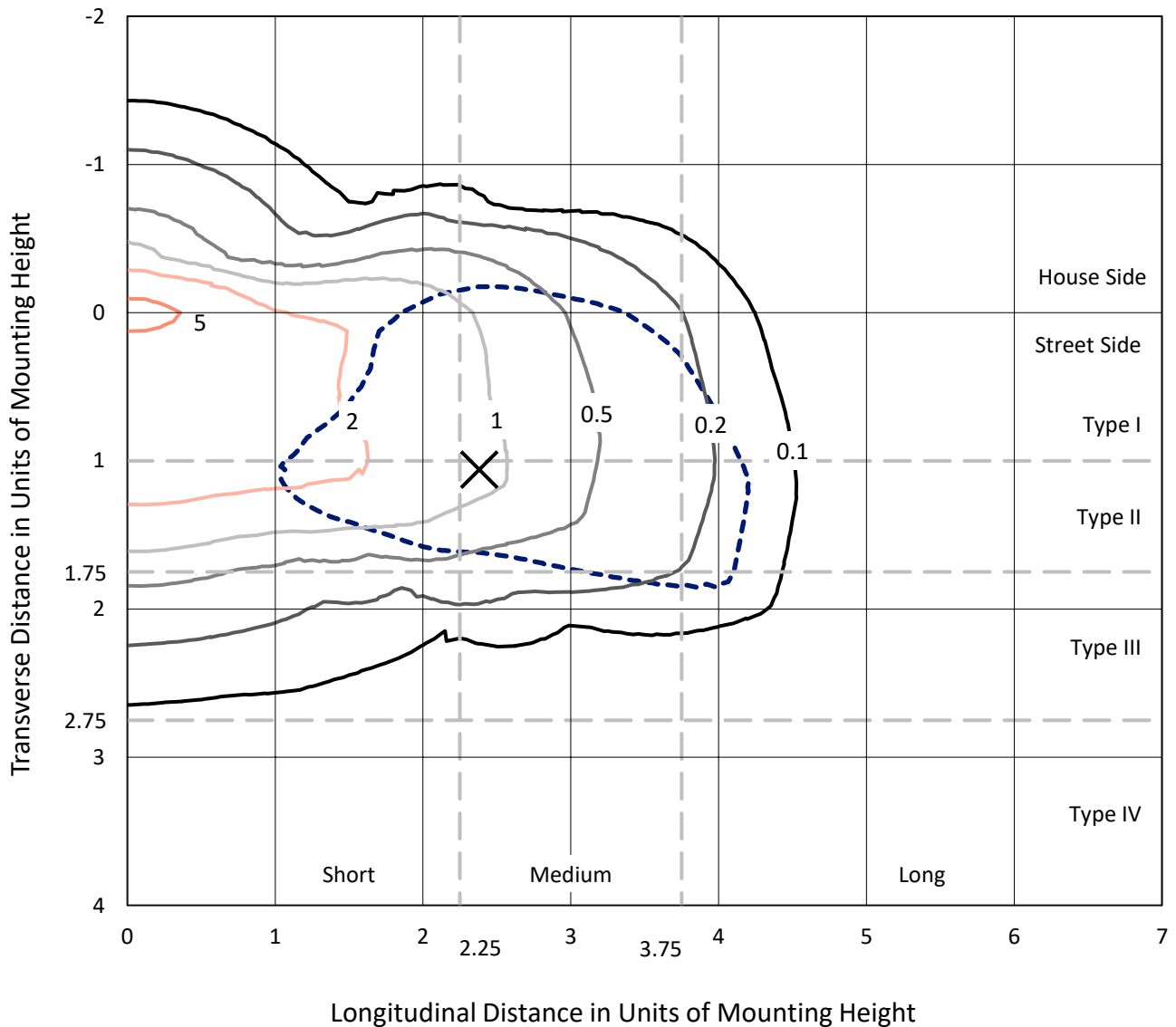
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

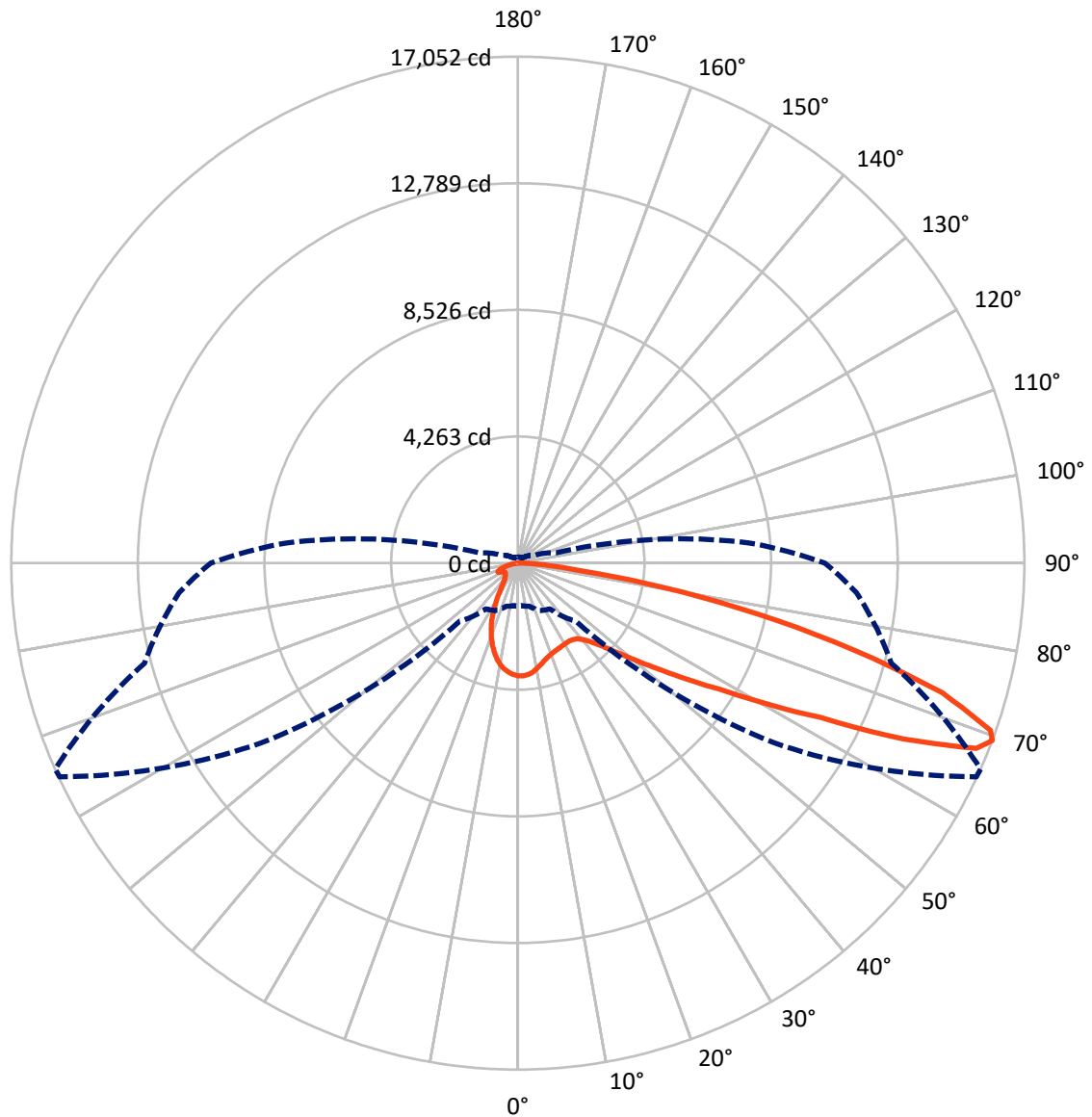
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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
<b>House Side</b>	Lumens	3092.9	0.0	3092.9
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	13353.1	0.0	13353.1
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	16446.0	0.0	16446.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	329.8	2.0
10°-20°	782.3	4.8
20°-30°	1064.9	6.5
30°-40°	1431.1	8.7
40°-50°	2136.8	13.0
50°-60°	3398.9	20.7
60°-70°	4180.5	25.4
70°-80°	2720.0	16.5
80°-90°	401.7	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°	16446.0	100.0
0°-180°	16446.0	100.0

**Coefficient of Utilization**



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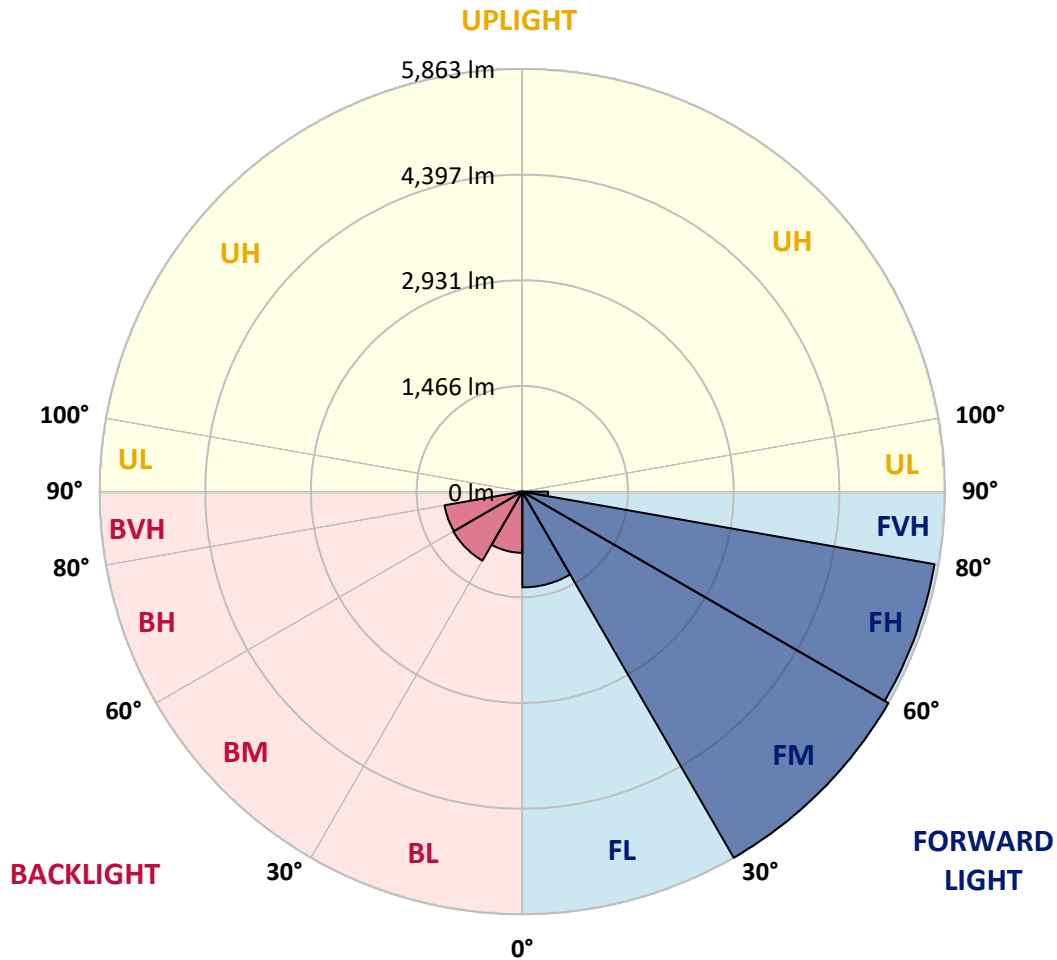
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1328.0	8.1			
FM	(30°-60°)	5862.5	35.6			
FH	(60°-80°)	5805.5	35.3			G3/7500
FVH	(80°-90°)	357.1	2.2			G3/500
BL	(0°-30°)	849.0	5.2	B2/1000		
BM	(30°-60°)	1104.3	6.7	B2/2500		
BH	(60°-80°)	1095.0	6.7	B3/2500		G3/2500
BVH	(80°-90°)	44.6	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°	3797.8	3797.8	3797.8	3797.8	3797.8	3797.8	3797.8	3797.8	3797.8	3797.8	3797.8
2.5°	3664.9	3679.4	3695.8	3714.0	3748.7	3767.8	3781.4	3796.9	3798.7	3806.9	3800.6
5°	3394.4	3411.7	3436.3	3470.9	3522.8	3603.8	3687.6	3755.9	3764.1	3802.4	3813.3
7.5°	3168.5	3178.5	3198.6	3254.1	3327.9	3418.1	3540.1	3678.5	3698.6	3789.6	3821.5
10°	2984.5	2994.6	3018.2	3075.6	3148.5	3261.4	3395.3	3577.4	3593.8	3750.5	3823.3
12.5°	2847.0	2856.1	2881.6	2938.1	3021.9	3127.5	3275.1	3468.1	3491.8	3698.6	3806.0
15°	2742.3	2759.6	2780.5	2827.0	2915.3	3017.3	3160.3	3368.0	3387.1	3643.9	3794.2
17.5°	2697.6	2705.8	2720.4	2763.2	2827.9	2928.1	3072.0	3289.6	3312.4	3605.7	3791.5
20°	2699.5	2707.7	2710.4	2734.1	2780.5	2867.0	3009.1	3227.7	3255.0	3572.0	3796.0
22.5°	2761.4	2762.3	2752.3	2744.1	2762.3	2834.3	2964.5	3181.3	3213.1	3557.4	3799.7
25°	2857.0	2873.4	2858.9	2820.6	2786.9	2821.5	2947.2	3155.8	3185.8	3536.5	3795.1
27.5°	3011.9	3014.6	3002.8	2950.8	2863.4	2837.9	2939.9	3136.6	3162.1	3521.0	3772.3
30°	3219.5	3211.3	3200.4	3143.0	3005.5	2900.7	2955.4	3119.3	3145.7	3498.2	3745.0
32.5°	3429.9	3455.4	3445.4	3378.0	3199.5	3022.8	3005.5	3117.5	3139.4	3480.9	3715.0
35°	3653.0	3664.9	3712.2	3677.6	3494.6	3220.4	3099.3	3145.7	3163.0	3481.8	3694.0
37.5°	3827.9	3859.8	3970.9	4000.9	3828.8	3481.8	3251.4	3225.9	3233.2	3526.4	3702.2
40°	4039.2	4093.8	4236.8	4359.8	4246.8	3821.5	3510.0	3374.3	3383.4	3633.9	3755.9
42.5°	4306.9	4345.2	4537.4	4704.0	4685.8	4270.5	3823.3	3617.5	3622.1	3847.9	3906.2
45°	4620.2	4674.9	4890.7	5141.2	5184.0	4778.7	4276.0	3985.5	3982.7	4180.4	4186.7
47.5°	5021.0	5054.7	5268.7	5541.9	5715.0	5417.2	4825.2	4513.7	4484.5	4664.9	4613.0
50°	5389.8	5442.7	5604.8	5903.5	6334.3	6164.9	5547.4	5198.6	5130.3	5298.8	5211.3
52.5°	5544.7	5600.2	5736.8	6107.5	6865.3	7132.1	6464.5	6015.5	5901.7	6031.0	5999.1
55°	5276.0	5347.9	5475.4	5926.3	7098.4	8247.8	7701.3	6960.0	6877.1	6821.5	6830.6
57.5°	4553.8	4622.1	4794.2	5291.5	6819.7	9057.4	9467.3	8174.0	7996.4	7740.5	7784.2
60°	3466.3	3509.1	3598.4	4149.4	5993.7	9267.8	11472.8	9708.6	9595.7	8655.8	8686.8
62.5°	2461.8	2510.0	2572.0	2847.0	4388.0	8674.9	13042.9	11851.6	11448.2	9603.9	9573.8
65°	1999.1	1966.3	2041.0	2169.4	2574.7	6723.2	13396.3	14826.1	14270.6	10852.5	10435.4
67.5°	1643.9	1609.3	1683.1	1911.7	1958.1	3902.6	12123.0	16756.9	16645.8	12210.5	11310.6
69°	1455.4	1437.2	1501.8	1762.3	1879.8	2771.4	10561.1	17025.6	17052.0	13011.0	11445.4
70°	1311.5	1318.8	1381.6	1686.7	1844.3	2285.1	9026.5	16654.9	16879.0	13410.8	11299.7
72.5°	965.4	980.9	1068.3	1397.1	1810.6	1939.0	5371.6	14547.5	14943.6	13434.5	10337.0
75°	674.9	667.6	745.0	1051.9	1710.4	1921.7	3154.8	11250.5	11699.5	11612.1	8685.8
77.5°	441.7	453.6	515.5	743.2	1439.0	1907.1	2056.5	7981.8	8273.3	7766.0	5137.6
80°	311.5	310.6	345.2	507.3	1067.4	1832.4	1684.0	5031.0	4957.2	3051.9	1523.7
82.5°	178.5	191.3	231.3	357.0	714.0	1612.9	1549.2	2406.2	2196.7	869.8	514.6
85°	99.3	103.8	137.5	215.8	417.1	1214.9	1352.5	1094.7	1032.8	363.4	221.3
87.5°	31.9	34.6	57.4	109.3	189.4	573.8	765.9	505.5	466.3	131.1	89.3
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°	3797.8	3797.8	3797.8	3797.8	3797.8	3797.8	3797.8	3797.8	3797.8	3797.8	3797.8
2.5°	3803.3	3814.2	3785.1	3756.9	3731.4	3695.8	3664.0	3637.5	3619.3	3616.6	3607.5
5°	3816.1	3817.0	3761.4	3686.7	3613.9	3533.7	3450.8	3391.6	3336.1	3305.1	3289.6
7.5°	3825.2	3817.0	3716.8	3595.7	3455.4	3309.7	3164.0	3047.4	2957.2	2921.7	2935.4
10°	3821.5	3796.0	3649.4	3455.4	3251.4	3033.7	2824.2	2660.3	2510.0	2432.6	2434.4
12.5°	3801.5	3759.6	3549.2	3297.8	2998.2	2706.8	2386.2	2164.9	1990.9	1888.0	1856.1
15°	3784.2	3711.3	3431.7	3083.8	2711.3	2295.1	1904.4	1631.2	1485.4	1404.4	1403.5
17.5°	3766.0	3664.9	3303.3	2857.0	2381.6	1846.1	1436.3	1227.7	1159.4	1167.6	1153.9
20°	3746.8	3610.2	3169.4	2604.8	1980.0	1377.1	1075.6	990.9	1010.0	1047.4	1052.8
22.5°	3725.0	3551.9	3025.5	2327.0	1557.4	1036.4	872.5	859.8	908.9	967.2	975.4
25°	3691.3	3479.1	2844.3	2036.4	1201.3	835.2	764.1	773.2	821.5	870.7	876.1
27.5°	3643.9	3388.9	2661.2	1674.0	902.6	716.8	698.5	710.4	734.1	764.1	771.4
30°	3580.2	3286.9	2450.8	1360.7	723.1	657.6	650.3	656.7	670.3	683.1	686.7
32.5°	3516.4	3188.5	2238.6	1041.9	644.8	618.4	611.1	611.1	611.1	612.9	613.8
35°	3457.2	3095.6	2010.9	811.5	603.8	587.4	577.4	566.5	564.7	558.3	558.3
37.5°	3424.4	3010.9	1768.7	679.4	573.8	561.9	548.3	530.1	520.0	521.0	519.1
40°	3430.8	2955.4	1548.3	604.7	549.2	536.4	515.5	494.5	488.2	488.2	486.3
42.5°	3502.8	2937.2	1337.0	565.6	525.5	510.9	484.5	465.4	461.8	460.8	462.7
45°	3668.5	2981.8	1147.5	540.1	505.5	483.6	457.2	439.9	436.3	436.3	435.3
47.5°	3991.8	3126.6	1011.8	523.7	490.9	462.7	435.3	418.0	411.7	409.8	409.8
50°	4494.6	3440.8	910.8	509.1	472.7	443.5	415.3	395.3	385.2	384.3	383.4
52.5°	5193.1	3930.8	871.6	498.2	452.6	423.5	392.5	373.4	360.7	357.9	356.1
55°	6010.1	4614.8	925.3	490.0	431.7	400.7	368.9	348.8	337.0	331.5	330.6
57.5°	6956.3	5436.3	1129.3	479.1	412.6	376.1	345.2	325.1	312.4	306.0	304.2
60°	7806.1	6280.5	1485.4	472.7	396.2	349.7	317.9	299.6	287.8	281.4	280.5
62.5°	8739.6	7085.7	1910.8	490.0	388.9	324.2	292.4	276.0	265.9	259.6	259.6
65°	9736.9	7891.7	2192.2	548.3	399.8	304.2	265.0	251.4	242.3	237.7	236.8
67.5°	10409.0	8170.4	1806.0	608.4	427.1	282.3	238.6	227.7	222.2	217.7	217.7
69°	10336.1	7817.9	1332.4	623.9	435.3	271.4	224.0	215.8	208.6	206.7	204.9
70°	10105.7	7416.3	1116.6	613.8	429.0	261.4	214.9	204.9	198.5	196.7	195.8
72.5°	9001.0	6431.7	831.5	533.7	365.2	226.8	190.3	181.2	175.8	173.0	173.0
75°	7478.2	5256.9	649.4	424.4	286.0	191.3	163.0	155.7	151.2	149.4	148.5
77.5°	4191.3	2935.4	466.3	332.4	216.8	154.8	136.6	130.2	125.7	123.9	123.9
80°	1167.6	838.8	274.1	219.5	147.5	117.5	108.4	103.8	97.5	92.9	95.6
82.5°	439.9	363.4	156.6	132.1	93.8	78.3	75.6	71.9	69.2	62.8	62.8
85°	214.0	176.7	100.2	70.1	51.9	41.0	39.2	37.3	35.5	31.0	31.9
87.5°	73.8	78.3	43.7	25.5	15.5	10.0	8.2	4.6	4.6	4.6	4.6
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)