

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: P192373

Luminaire Tested: **GLEON-AF-05-LED-E1-T4W-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192373  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-05-LED-E1-T4W-7050  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29543 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 279  
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: 25 FT

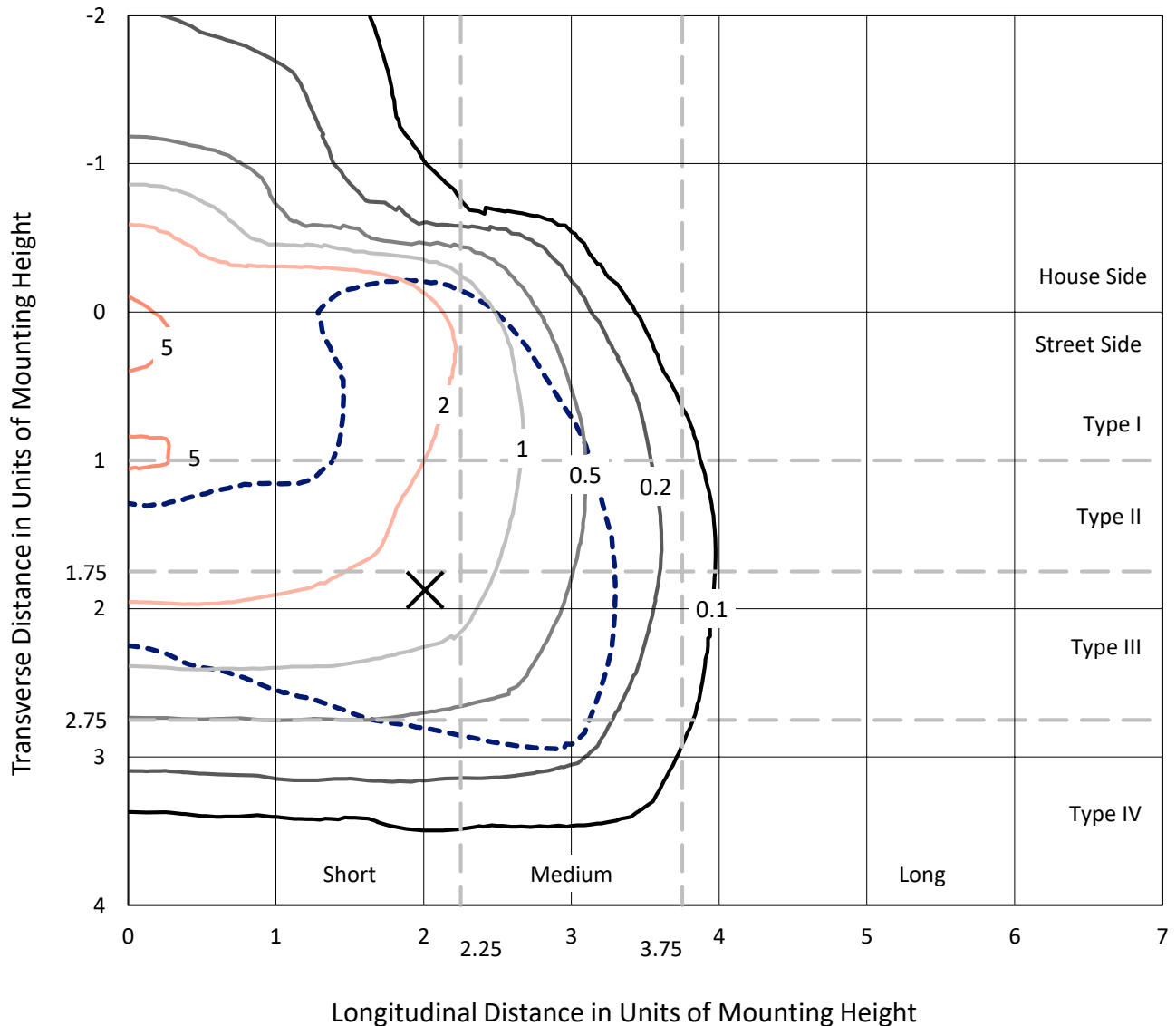


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### Iso-Footcandle Lines of Horizontal Illumination

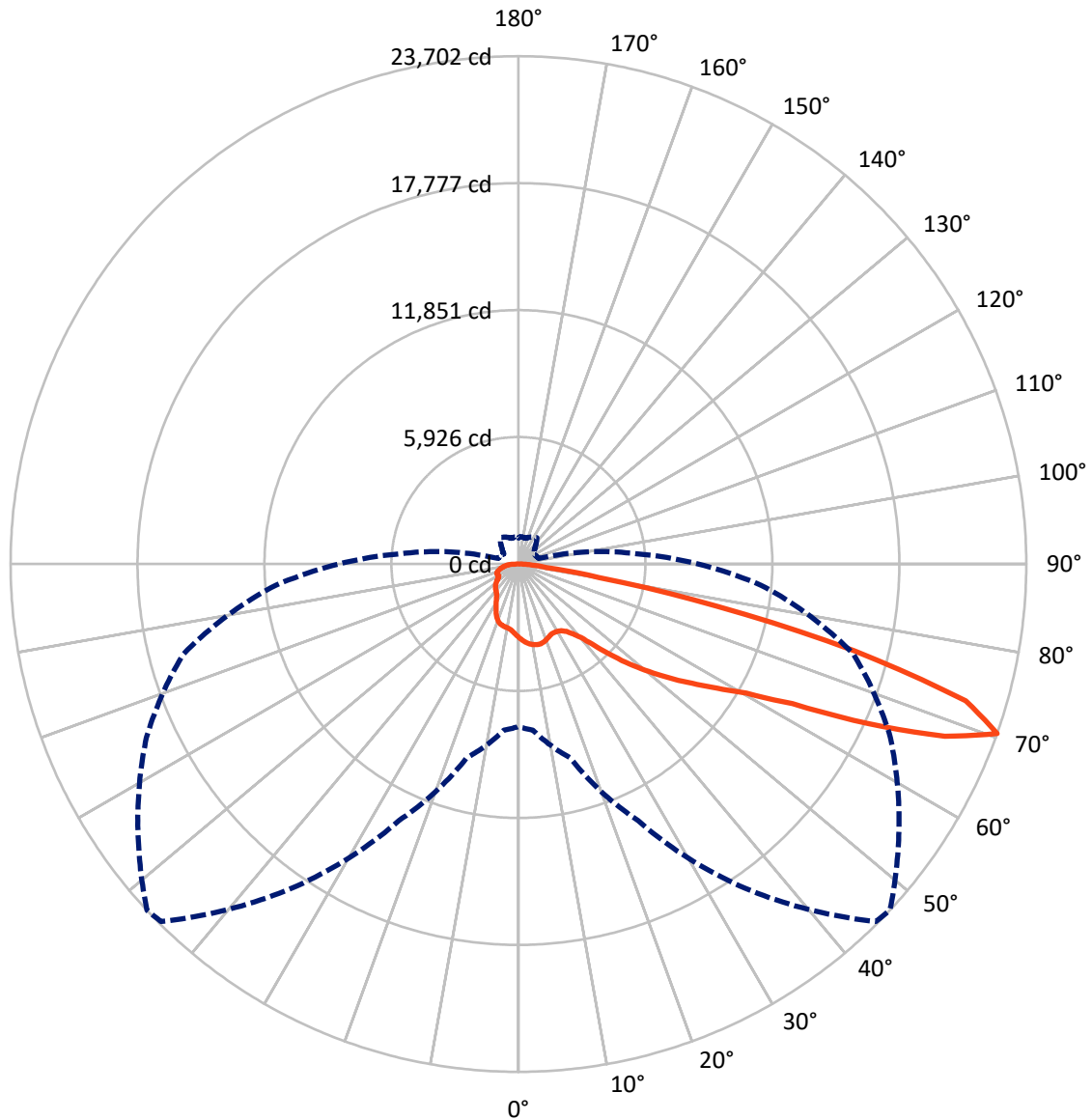
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6163.3	0.0	6163.3
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	23379.8	0.0	23379.8
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	29543.0	0.0	29543.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	328.4	1.1
10°-20°	963.6	3.3
20°-30°	1423.0	4.8
30°-40°	2068.3	7.0
40°-50°	3722.1	12.6
50°-60°	6448.2	21.8
60°-70°	9203.4	31.2
70°-80°	4724.5	16.0
80°-90°	661.5	2.2
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°	29543.0	100.0
0°-180°	29543.0	100.0

**Coefficient of Utilization**



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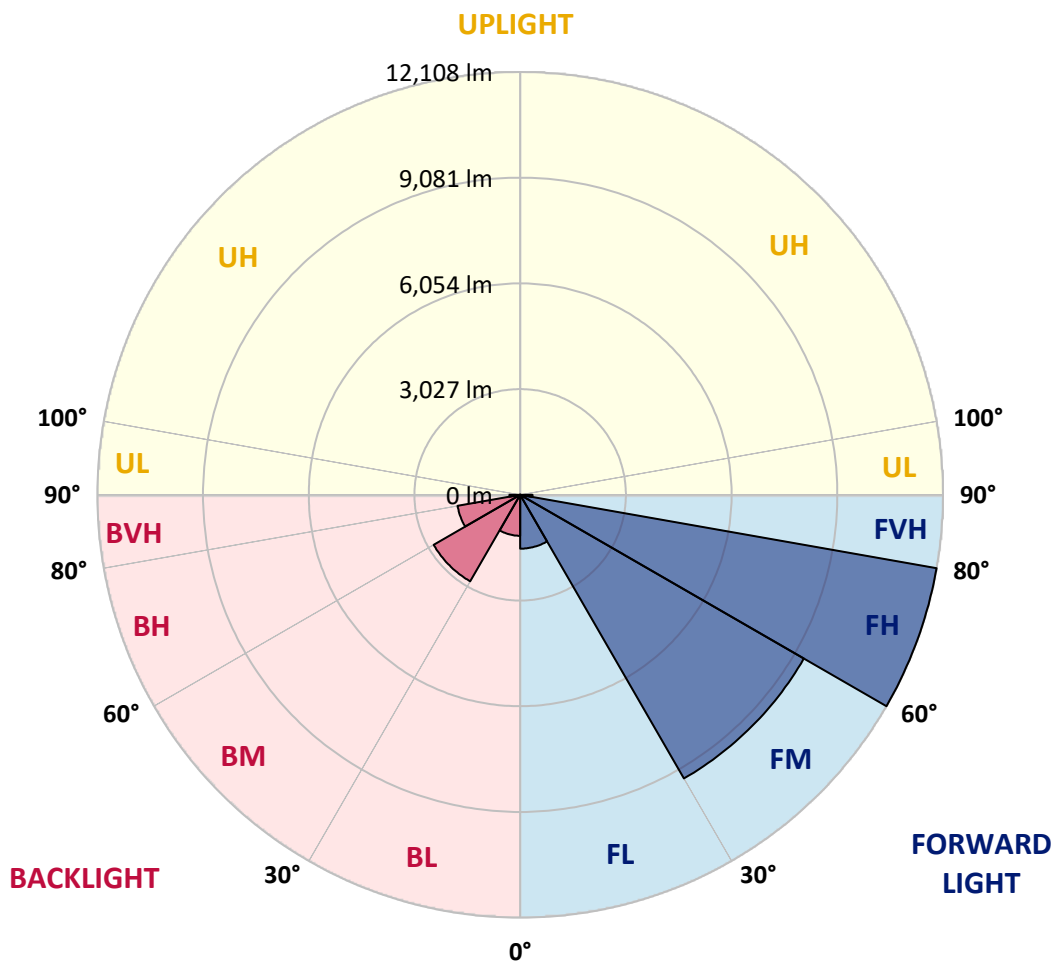
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1541.5	5.2			
FM	(30°-60°)	9377.8	31.7			
FH	(60°-80°)	12107.5	41.0			G5
FVH	(80°-90°)	353.0	1.2			G3/500
BL	(0°-30°)	1173.5	4.0	B3/2500		
BM	(30°-60°)	2860.8	9.7	B3/5000		
BH	(60°-80°)	1820.4	6.2	B3/2500		G3/2500
BVH	(80°-90°)	308.5	1.0			G3/500
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°	35°	45°	47°	55°	65°	75°	85°
0°	3427.9	3427.9	3427.9	3427.9	3427.9	3427.9	3427.9	3427.9	3427.9	3427.9	3427.9
2.5°	3629.1	3621.9	3619.1	3613.3	3606.1	3570.2	3563.0	3537.1	3501.2	3463.8	3425.0
5°	3867.7	3866.3	3850.5	3821.7	3775.7	3696.7	3678.0	3614.8	3530.0	3448.0	3366.1
7.5°	4077.6	4064.6	4034.4	3976.9	3896.5	3788.7	3762.8	3675.1	3558.7	3446.6	3335.9
10°	4231.3	4224.2	4158.0	4079.0	3974.1	3854.8	3824.6	3726.9	3598.9	3456.7	3318.7
12.5°	4319.0	4304.6	4228.5	4133.6	4008.6	3892.1	3862.0	3762.8	3619.1	3456.7	3294.2
15°	4313.3	4303.2	4227.0	4123.6	3997.1	3895.0	3867.7	3768.5	3614.8	3442.3	3262.6
17.5°	4198.3	4202.6	4137.9	4035.9	3932.4	3854.8	3830.3	3738.4	3586.0	3413.5	3225.3
20°	3997.1	4017.2	3974.1	3883.5	3826.0	3772.9	3757.0	3679.4	3541.5	3371.9	3185.0
22.5°	3795.9	3814.5	3797.3	3721.1	3712.5	3680.9	3672.2	3616.2	3502.6	3346.0	3160.6
25°	3647.8	3665.1	3662.2	3596.1	3621.9	3620.5	3613.3	3586.0	3494.0	3346.0	3164.9
27.5°	3607.6	3613.3	3607.6	3547.2	3583.1	3611.9	3606.1	3601.8	3519.9	3387.7	3219.5
30°	3745.5	3736.9	3692.4	3570.2	3603.3	3643.5	3637.8	3640.6	3597.5	3496.9	3341.7
32.5°	4296.0	4257.2	4116.4	3772.9	3685.2	3706.7	3709.6	3757.0	3764.2	3665.1	3531.4
35°	5119.6	5076.5	4893.9	4316.1	3939.6	3864.8	3864.8	3936.7	3979.8	3906.5	3826.0
37.5°	5992.0	5944.6	5846.8	5069.3	4474.2	4139.4	4132.2	4182.5	4244.3	4261.5	4281.7
40°	6983.7	6933.4	6960.7	5914.4	5220.2	4615.1	4513.1	4477.1	4643.8	4754.5	4915.5
42.5°	8068.9	8045.9	8055.9	6855.8	6069.6	5326.6	5181.4	4996.0	5197.2	5394.1	5731.9
45°	9073.5	9093.7	9083.6	7863.3	7015.4	6194.7	6040.9	5681.6	5878.5	6216.2	6766.7
47.5°	9953.1	9869.8	9999.1	8964.3	8074.6	7166.3	6976.5	6495.1	6694.8	7111.7	8043.0
50°	11021.0	11009.5	10819.8	10433.2	9355.2	8142.2	7893.5	7335.9	7646.3	8225.5	9651.3
52.5°	12143.6	11935.2	11761.2	11575.8	10713.5	9142.5	8837.8	8173.8	8764.5	9493.2	11611.8
55°	12373.5	12280.1	12495.7	12807.6	12022.8	10181.7	9826.7	9224.4	10023.6	10942.0	13872.6
57.5°	12865.1	12863.6	13309.2	13865.4	13371.0	11284.1	10926.2	10493.6	11439.3	12602.1	16272.9
60°	13197.1	13290.5	14118.4	15197.8	14694.7	12557.5	12228.4	11958.2	13049.0	14457.6	18509.3
62.5°	13371.0	13497.5	14627.2	15738.2	16566.1	14677.5	14348.3	13958.8	15179.1	16492.8	19817.2
65°	12648.0	12896.7	14548.1	16205.3	18204.6	18114.0	17966.0	17281.8	17842.4	18101.1	19344.3
67.5°	10647.4	10901.8	12824.8	15769.8	19374.5	21428.4	21460.0	20291.5	19480.9	18239.1	16264.2
70°	7586.0	7785.7	9376.8	13221.5	18483.4	23594.4	23702.1	21678.5	19154.6	16175.1	11363.1
72.5°	3601.8	3724.0	5230.3	8605.0	14667.4	21618.1	21826.5	19907.7	16287.2	11975.4	6199.0
75°	1323.7	1361.1	1767.9	3660.7	8507.2	15942.3	16188.1	14270.7	10796.8	5961.8	2361.4
77.5°	793.4	817.8	991.7	1545.1	3346.0	9112.3	9476.0	7761.3	4718.6	2219.2	1161.3
80°	554.8	572.0	711.5	961.5	1581.0	3472.5	3795.9	3167.8	1880.0	1404.2	845.1
82.5°	375.1	383.8	500.2	649.6	1050.7	1240.4	1338.1	1408.5	1267.7	1044.9	536.1
85°	245.8	254.4	339.2	428.3	668.3	641.0	655.4	829.3	925.6	710.0	297.5
87.5°	140.9	146.6	204.1	228.5	327.7	271.6	274.5	436.9	592.2	478.6	181.1
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°	3427.9	3427.9	3427.9	3427.9	3427.9	3427.9	3427.9	3427.9	3427.9	3427.9	3427.9
2.5°	3415.0	3396.3	3354.6	3328.7	3304.3	3298.6	3288.5	3287.1	3285.6	3285.6	3281.3
5°	3338.8	3307.2	3242.5	3206.6	3176.4	3173.5	3172.1	3179.3	3182.1	3185.0	3180.7
7.5°	3289.9	3246.8	3166.3	3114.6	3078.6	3070.0	3084.4	3117.5	3139.0	3147.6	3143.3
10°	3259.7	3206.6	3113.1	3057.1	3026.9	3022.6	3041.3	3080.1	3124.6	3141.9	3140.5
12.5°	3225.3	3164.9	3065.7	3006.8	2989.5	2998.2	3022.6	3058.5	3104.5	3131.8	3133.3
15°	3190.8	3120.3	3018.3	2966.5	2959.4	2970.9	2993.8	3021.2	3057.1	3084.4	3087.3
17.5°	3149.1	3075.8	2973.7	2920.5	2914.8	2920.5	2922.0	2936.4	2959.4	2985.2	2992.4
20°	3104.5	3029.8	2923.4	2870.2	2844.4	2821.4	2795.5	2798.4	2805.6	2831.4	2837.2
22.5°	3072.9	2998.2	2884.6	2811.3	2742.3	2673.3	2621.6	2614.4	2617.3	2638.8	2646.0
25°	3075.8	2996.7	2874.6	2748.1	2597.2	2486.5	2417.5	2406.0	2404.6	2420.4	2430.4
27.5°	3131.8	3052.8	2911.9	2683.4	2439.1	2275.2	2201.9	2193.3	2181.8	2186.1	2197.6
30°	3256.9	3183.6	3002.5	2617.3	2268.0	2068.2	1992.1	1983.4	1967.6	1960.4	1969.1
32.5°	3461.0	3400.6	3134.7	2554.0	2097.0	1891.5	1813.8	1795.2	1785.1	1776.5	1783.7
35°	3800.2	3774.3	3311.5	2485.1	1946.1	1754.9	1684.5	1655.7	1641.4	1657.2	1668.7
37.5°	4332.0	4346.3	3542.9	2377.3	1829.7	1664.4	1605.4	1572.4	1550.8	1563.8	1576.7
40°	5085.1	5095.2	3798.7	2224.9	1729.0	1611.2	1547.9	1517.8	1487.6	1464.6	1463.1
42.5°	6073.9	5971.9	4050.2	2059.6	1612.6	1578.1	1507.7	1470.3	1424.3	1361.1	1348.2
45°	7246.8	6888.9	4241.4	1869.9	1481.8	1537.9	1463.1	1411.4	1339.5	1270.6	1263.4
47.5°	8597.8	7873.4	4334.8	1673.0	1359.7	1479.0	1408.5	1326.6	1236.1	1201.6	1197.3
50°	10247.8	9041.9	4379.4	1481.8	1253.3	1401.3	1329.5	1233.2	1157.0	1149.8	1145.5
52.5°	12126.3	10447.6	4393.8	1325.2	1165.6	1300.7	1264.8	1171.4	1111.0	1116.8	1116.8
55°	14092.5	11899.2	4198.3	1211.6	1085.1	1197.3	1221.7	1146.9	1096.6	1119.6	1128.3
57.5°	15897.7	13185.6	3583.1	1124.0	1009.0	1118.2	1205.9	1169.9	1135.4	1228.9	1234.6
60°	17283.3	13945.9	2676.2	1044.9	952.9	1090.9	1247.6	1257.6	1266.2	1489.0	1519.2
62.5°	17573.6	13692.9	1839.7	983.1	927.0	1113.9	1323.7	1325.2	1315.1	1470.3	1489.0
65°	16241.2	12093.3	1338.1	948.6	905.5	1155.6	1388.4	1358.2	1292.1	1410.0	1375.5
67.5°	12898.1	9110.9	1113.9	922.7	873.9	1152.7	1457.4	1388.4	1279.2	1381.2	1325.2
70°	<b>8372.1</b>	<b>5509.1</b>	<b>991.7</b>	<b>901.2</b>	<b>836.5</b>	<b>1098.1</b>	<b>1497.6</b>	<b>1385.5</b>	<b>1241.8</b>	<b>1284.9</b>	<b>1218.8</b>
72.5°	4084.7	2463.5	909.8	869.6	797.7	1021.9	1496.2	1359.7	1203.0	1200.1	1164.2
75°	1598.3	1128.3	835.1	822.1	731.6	935.7	1456.0	1322.3	1157.0	1111.0	1098.1
77.5°	935.7	804.9	740.2	751.7	652.5	849.4	1397.0	1257.6	1093.8	1039.2	1024.8
80°	681.3	602.2	631.0	649.6	557.7	763.2	1318.0	1178.6	1023.3	1050.7	1030.5
82.5°	436.9	388.1	511.7	530.4	464.2	675.5	1231.7	1095.2	924.2	839.4	819.2
85°	222.8	245.8	380.9	403.9	357.9	554.8	1126.8	984.5	812.1	698.5	710.0
87.5°	125.0	168.2	242.9	271.6	253.0	426.9	914.1	812.1	662.6	539.0	474.3
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)