

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: P193727

Luminaire Tested: **GLEON-AF-09-LED-E1-SL3-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-SL3-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47638 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 575
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

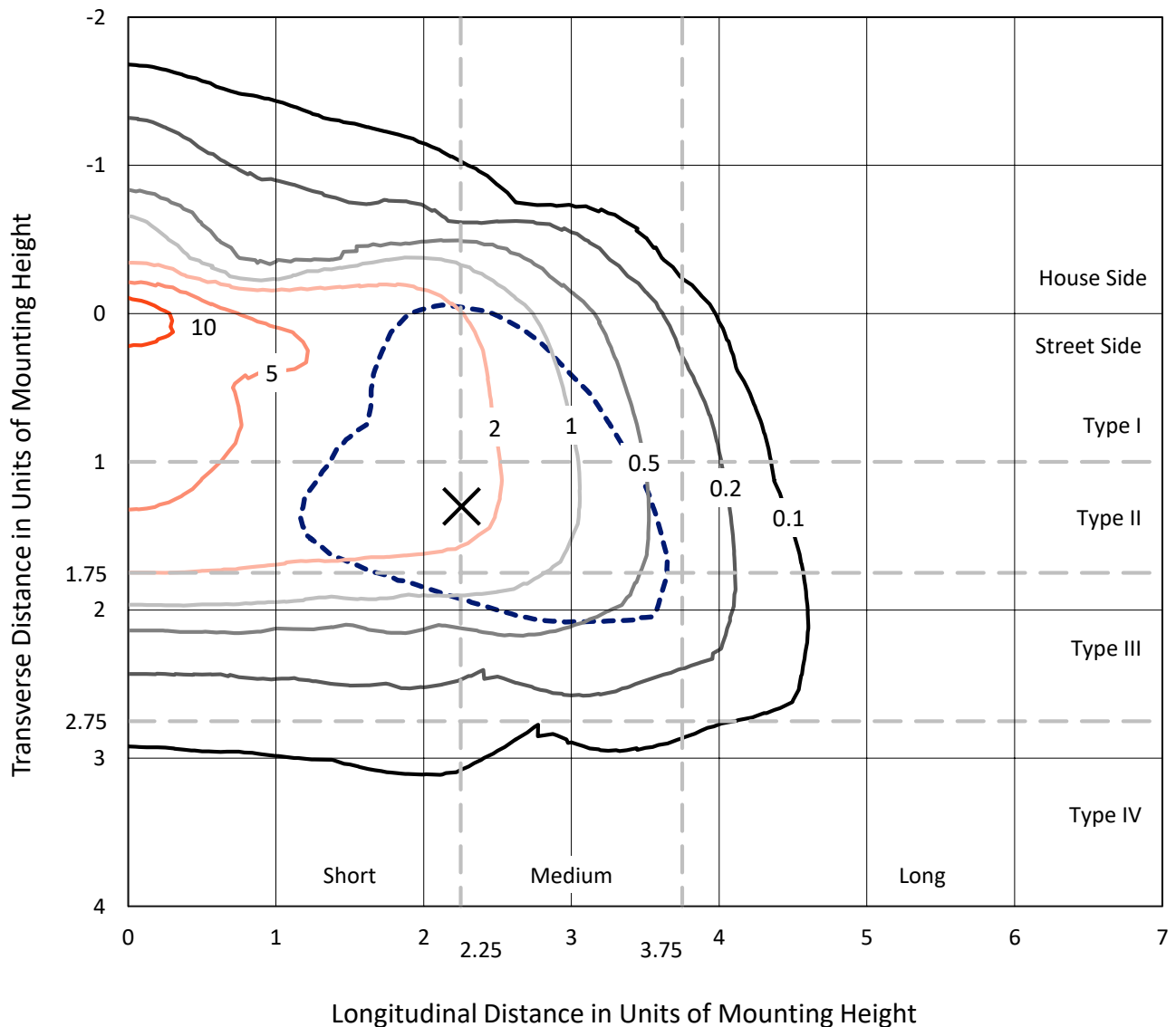


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

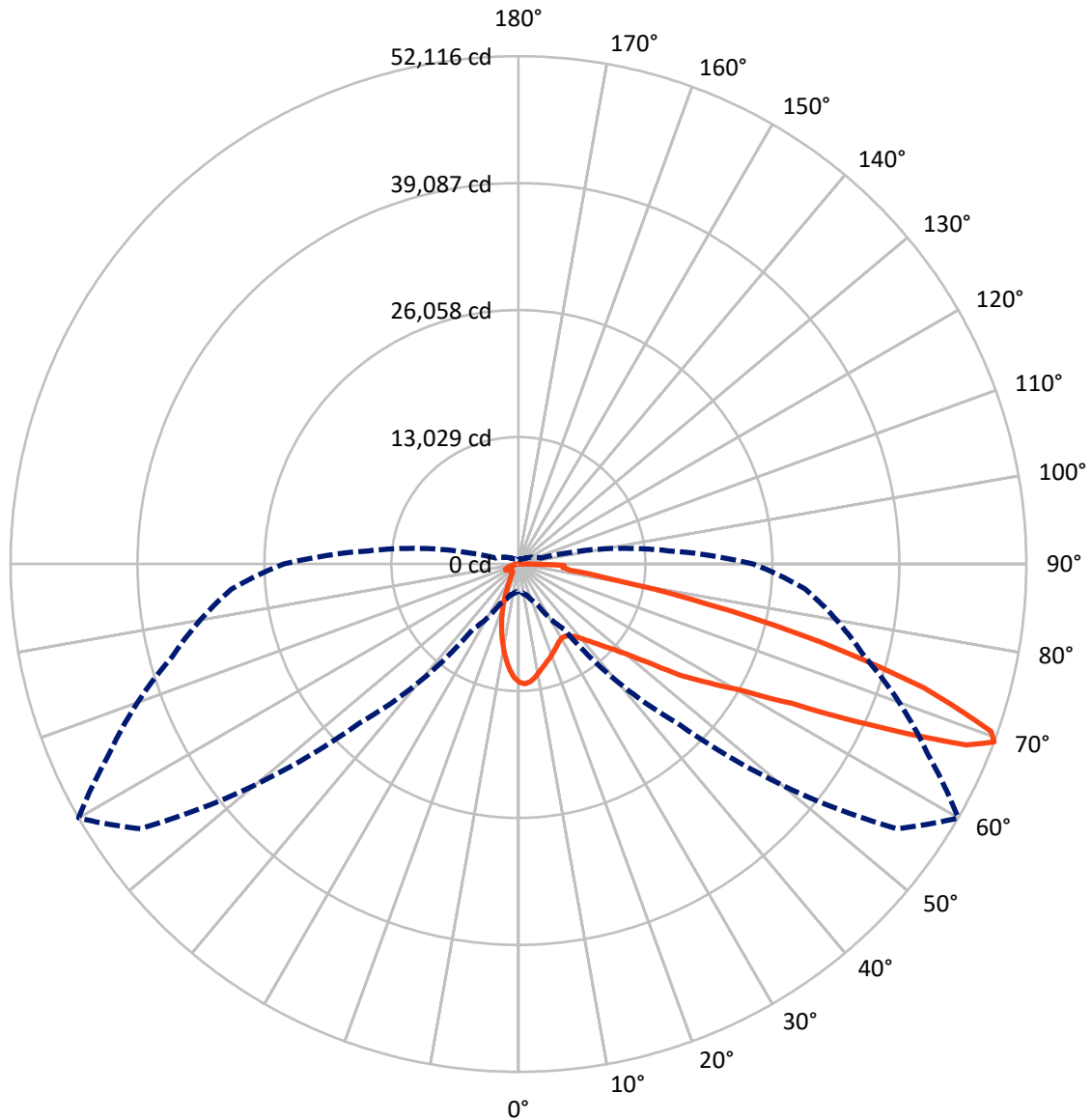


Based on 30 foot mounting height. Maximum calculated value = 13.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6777.4	0.0	6777.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	40860.6	0.0	40860.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	47638.0	0.0	47638.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1026.4	2.2
10°-20°	2186.8	4.6
20°-30°	2786.4	5.8
30°-40°	3830.5	8.0
40°-50°	6215.4	13.0
50°-60°	9967.9	20.9
60°-70°	13266.5	27.8
70°-80°	7162.9	15.0
80°-90°	1195.2	2.5
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°	47638.0	100.0
0°-180°	47638.0	100.0



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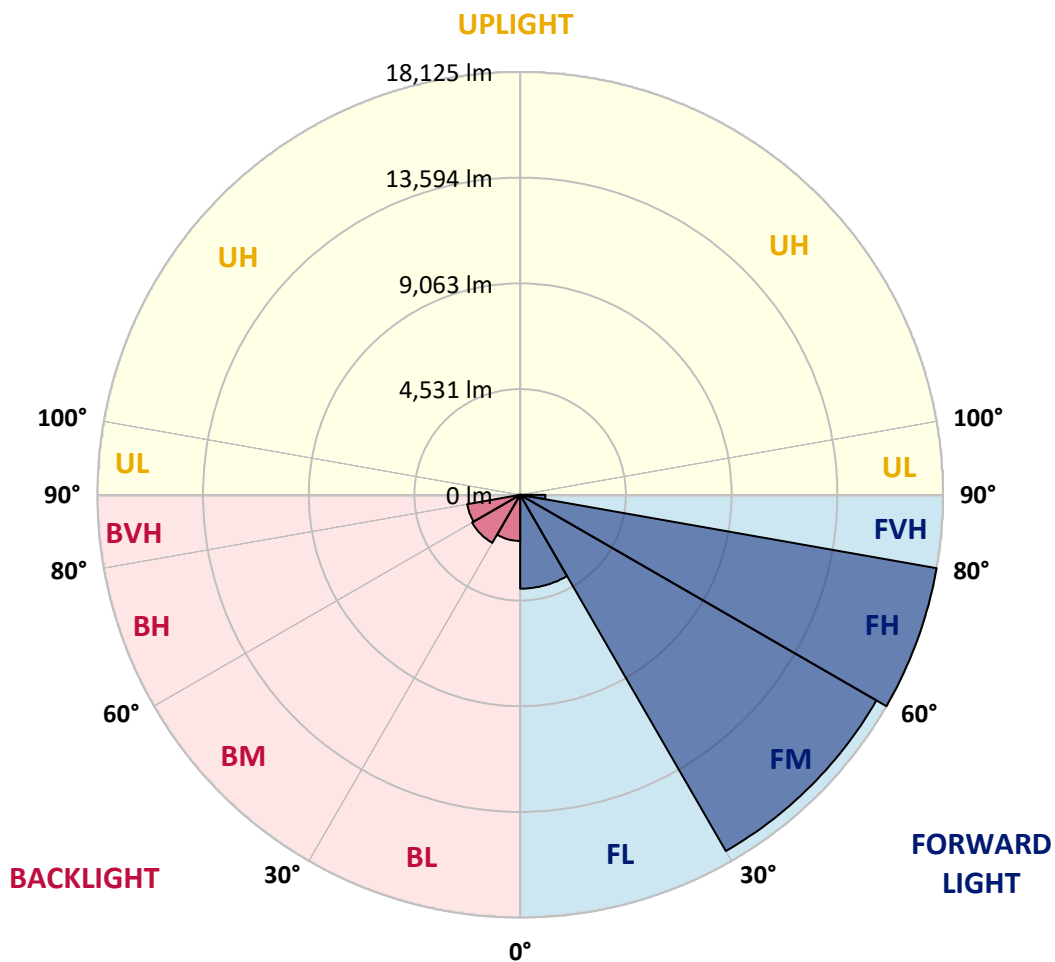
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4022.4	8.4			
FM (30°-60°)	17632.8	37.0			
FH (60°-80°)	18125.3	38.0			G5
FVH (80°-90°)	1080.1	2.3			G5
BL (0°-30°)	1977.2	4.2	B3/2500		
BM (30°-60°)	2381.0	5.0	B2/2500		
BH (60°-80°)	2304.1	4.8	B3/2500		G3/2500
BVH (80°-90°)	115.1	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	12138.9	12138.9	12138.9	12138.9	12138.9	12138.9	12138.9	12138.9	12138.9	12138.9	12138.9
2.5°	12387.4	12415.0	12403.5	12396.6	12417.3	12385.1	12318.4	12297.7	12265.5	12189.5	12060.6
5°	11922.6	12005.4	12000.8	12062.9	12166.5	12194.1	12164.2	12168.8	12109.0	12014.6	11800.6
7.5°	11119.4	11154.0	11172.4	11308.1	11496.8	11648.7	11777.6	11819.0	11791.4	11710.9	11434.7
10°	10291.0	10318.6	10362.4	10521.1	10760.5	10969.9	11213.8	11354.2	11414.0	11400.2	11091.8
12.5°	9579.9	9607.6	9665.1	9844.6	10129.9	10387.7	10742.1	10916.9	11059.6	11144.8	10813.4
15°	8942.5	9002.3	9057.6	9264.7	9584.5	9922.8	10323.2	10544.1	10765.1	10956.1	10567.2
17.5°	8445.4	8505.3	8537.5	8726.2	9066.8	9481.0	9950.4	10210.5	10486.6	10799.6	10323.2
20°	8157.8	8185.4	8171.6	8277.5	8583.5	9023.0	9579.9	9881.4	10215.1	10652.3	10079.3
22.5°	8077.2	8079.6	8028.9	8017.4	8215.3	8585.8	9184.1	9550.0	9959.6	10555.7	9869.9
25°	8272.9	8265.9	8127.9	8015.1	8035.8	8252.1	8802.1	9227.9	9745.6	10534.9	9708.8
27.5°	8707.8	8728.5	8523.7	8312.0	8102.6	8095.7	8512.2	8960.9	9570.7	10629.3	9639.8
30°	9317.6	9352.1	9133.5	8864.3	8470.8	8146.3	8399.4	8802.1	9462.6	10824.9	9628.3
32.5°	9985.0	10021.8	9856.1	9573.0	9057.6	8459.3	8477.7	8815.9	9458.0	11098.7	9706.5
35°	10696.0	10737.4	10652.3	10413.0	9840.0	9036.9	8776.8	9039.2	9607.6	11517.6	9915.9
37.5°	11489.9	11554.4	11577.4	11349.6	10737.4	9798.6	9267.0	9462.6	9945.8	12099.8	10300.2
40°	12633.6	12723.4	12716.5	12389.7	11766.1	10827.2	10024.1	10074.7	10472.8	12877.6	10914.6
42.5°	14824.4	14842.8	14269.8	13558.7	12898.3	11908.8	10916.9	10875.5	11200.0	13862.5	11819.0
45°	17611.2	17535.2	16260.4	14886.5	14081.1	13151.4	12079.1	11876.5	12122.8	15063.7	12951.2
47.5°	19923.9	19749.0	18138.1	16241.9	15333.0	14502.2	13443.7	13089.3	13225.1	16426.0	14414.8
50°	20727.0	20595.8	19261.1	17369.5	16518.1	16149.9	15123.6	14621.9	14658.7	18050.7	16129.2
52.5°	20554.4	20536.0	19645.4	18112.8	17627.3	17880.4	17503.0	16824.2	16465.2	19854.8	17979.4
55°	20147.1	20186.2	19864.0	18978.1	18895.2	19551.1	20611.9	20110.3	18994.2	21675.1	19891.7
57.5°	18731.9	18833.1	19541.9	20066.6	20936.4	21912.1	23115.7	22973.0	21716.5	23642.6	22165.3
60°	15091.3	15326.1	17226.9	19854.8	23037.4	26088.8	26627.3	26295.9	24524.0	26084.2	25168.3
62.5°	10574.1	10818.0	13077.8	17190.0	22692.2	30806.3	32905.0	31476.0	28555.7	29681.0	29055.1
65°	5661.0	5778.3	7504.2	11927.2	19157.6	31779.7	42079.9	39905.3	34939.3	34115.4	32380.3
67.5°	3122.7	3187.2	3847.6	6022.3	12270.1	27985.0	47925.0	49568.1	42917.6	37067.9	31775.1
69°	2823.6	2883.4	3316.0	4561.0	8210.7	23138.7	47354.3	52115.5	46415.4	36775.6	29538.3
70°	2761.5	2816.7	3205.6	4204.3	6645.9	19072.4	45442.0	51464.3	47248.5	35728.6	27586.9
72.5°	2485.3	2545.1	2922.5	3776.3	5679.4	9508.6	35995.5	43513.6	42896.9	30978.9	20924.9
75°	2317.3	2372.5	3012.3	3698.0	5437.8	6017.7	23730.1	32069.7	31533.5	21670.5	11282.8
77.5°	991.8	987.2	1396.8	3129.6	5518.3	5826.7	12751.0	20034.3	18278.5	9262.4	3240.1
80°	662.7	651.2	662.7	920.5	5060.4	5858.9	6680.4	10169.0	7681.4	2361.0	1597.0
82.5°	570.7	561.5	582.2	561.5	1778.8	6687.3	5679.4	5407.8	3652.0	1341.6	791.6
85°	384.3	368.2	501.7	504.0	839.9	5941.7	6397.4	4567.9	2954.8	796.2	391.2
87.5°	184.1	179.5	292.3	356.7	492.5	2414.0	7177.5	4680.7	2980.1	407.3	186.4
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°	12138.9	12138.9	12138.9	12138.9	12138.9	12138.9	12138.9	12138.9	12138.9	12138.9	12138.9
2.5°	12021.5	11927.2	11835.1	11724.7	11609.6	11480.7	11416.3	11351.9	11335.8	11317.4	11252.9
5°	11690.1	11556.7	11326.6	11073.4	10806.5	10546.4	10348.5	10224.3	10129.9	10081.6	9996.5
7.5°	11262.1	11066.5	10663.8	10226.6	9777.8	9368.2	9013.8	8790.6	8578.9	8480.0	8367.2
10°	10854.8	10562.6	9936.6	9292.3	8647.9	8028.9	7446.7	7034.8	6668.9	6464.1	6319.1
12.5°	10505.0	10104.6	9237.1	8364.9	7481.2	6599.9	5727.7	5042.0	4469.0	4167.5	4013.3
15°	10164.4	9681.2	8572.0	7465.1	6330.6	5131.7	3985.7	3207.9	2733.8	2545.1	2480.7
17.5°	9856.1	9237.1	7904.7	6558.5	5143.2	3693.4	2678.6	2250.6	2068.8	2006.7	1985.9
20°	9522.4	8788.3	7212.0	5610.4	3905.2	2582.0	2091.8	1903.1	1829.5	1811.1	1801.8
22.5°	9200.2	8346.5	6549.2	4595.5	2805.2	1992.8	1797.2	1719.0	1707.5	1723.6	1723.6
25°	8926.4	7950.7	5833.6	3534.7	2059.6	1677.6	1608.5	1590.1	1633.9	1693.7	1705.2
27.5°	8721.6	7626.2	5071.9	2609.6	1640.8	1459.0	1456.7	1486.6	1594.7	1709.8	1732.8
30°	8581.2	7317.8	4257.2	1882.4	1376.1	1284.1	1320.9	1385.3	1544.1	1707.5	1751.2
32.5°	8509.9	7090.0	3408.1	1456.7	1178.2	1127.6	1189.7	1268.0	1424.4	1576.3	1633.9
35°	8565.1	6922.0	2607.3	1215.0	1040.1	1001.0	1065.5	1141.4	1233.4	1297.9	1341.6
37.5°	8772.2	6855.3	1967.5	1088.5	945.8	909.0	959.6	1003.3	1040.1	1058.6	1079.3
40°	9218.6	6926.6	1576.3	1024.0	892.9	846.8	867.6	883.7	906.7	925.1	934.3
42.5°	9876.8	7140.7	1412.9	998.7	865.3	798.5	793.9	800.8	830.7	865.3	872.2
45°	10797.3	7518.1	1401.4	1014.8	851.4	759.4	738.7	747.9	793.9	846.8	856.1
47.5°	11973.2	8093.4	1493.5	1063.2	863.0	738.7	704.2	715.7	773.2	844.5	856.1
50°	13397.6	8896.5	1647.7	1134.5	913.6	743.3	692.7	699.6	759.4	837.6	849.1
52.5°	15079.8	10035.6	1815.7	1203.5	966.5	773.2	701.9	685.8	741.0	810.0	823.8
55°	16950.7	11496.8	1988.2	1265.7	994.1	810.0	720.3	667.4	706.5	764.0	775.5
57.5°	19247.3	13540.3	2287.4	1325.5	1012.5	835.3	738.7	648.9	662.7	704.2	713.4
60°	22356.3	16430.6	2814.4	1424.4	1054.0	844.5	736.4	632.8	619.0	642.0	646.6
62.5°	26081.9	19569.5	3253.9	1548.7	1123.0	851.4	722.6	621.3	582.2	582.2	586.8
65°	28293.4	20409.4	3010.0	1652.3	1180.5	844.5	706.5	609.8	554.6	529.3	531.6
67.5°	26417.9	17949.4	2579.7	1673.0	1178.2	812.3	681.2	589.1	527.0	487.9	485.6
69°	24068.4	15487.1	2386.4	1617.8	1123.0	770.9	648.9	566.1	506.3	464.8	462.5
70°	22174.5	13984.5	2259.8	1557.9	1063.2	741.0	623.6	545.4	490.2	451.0	446.4
72.5°	16122.3	9163.4	1930.7	1339.3	876.8	621.3	538.5	478.7	437.2	414.2	409.6
75°	8056.5	4370.0	1567.1	1086.2	672.0	497.1	441.8	400.4	379.7	375.1	372.8
77.5°	2646.4	2002.1	1120.7	810.0	499.4	388.9	356.7	326.8	322.2	336.0	331.4
80°	1454.4	1164.4	711.1	536.2	340.6	285.4	280.7	264.6	271.5	294.6	290.0
82.5°	741.0	605.2	439.5	322.2	230.1	204.8	223.2	214.0	223.2	243.9	241.6
85°	365.9	331.4	278.4	195.6	151.9	131.2	158.8	165.7	170.3	186.4	186.4
87.5°	211.7	195.6	147.3	92.0	75.9	69.0	92.0	89.7	105.9	115.1	112.8
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)