

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: P383665

Luminaire Tested: **GLEON-SA9C-735-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383665  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA9C-735-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48221.6 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

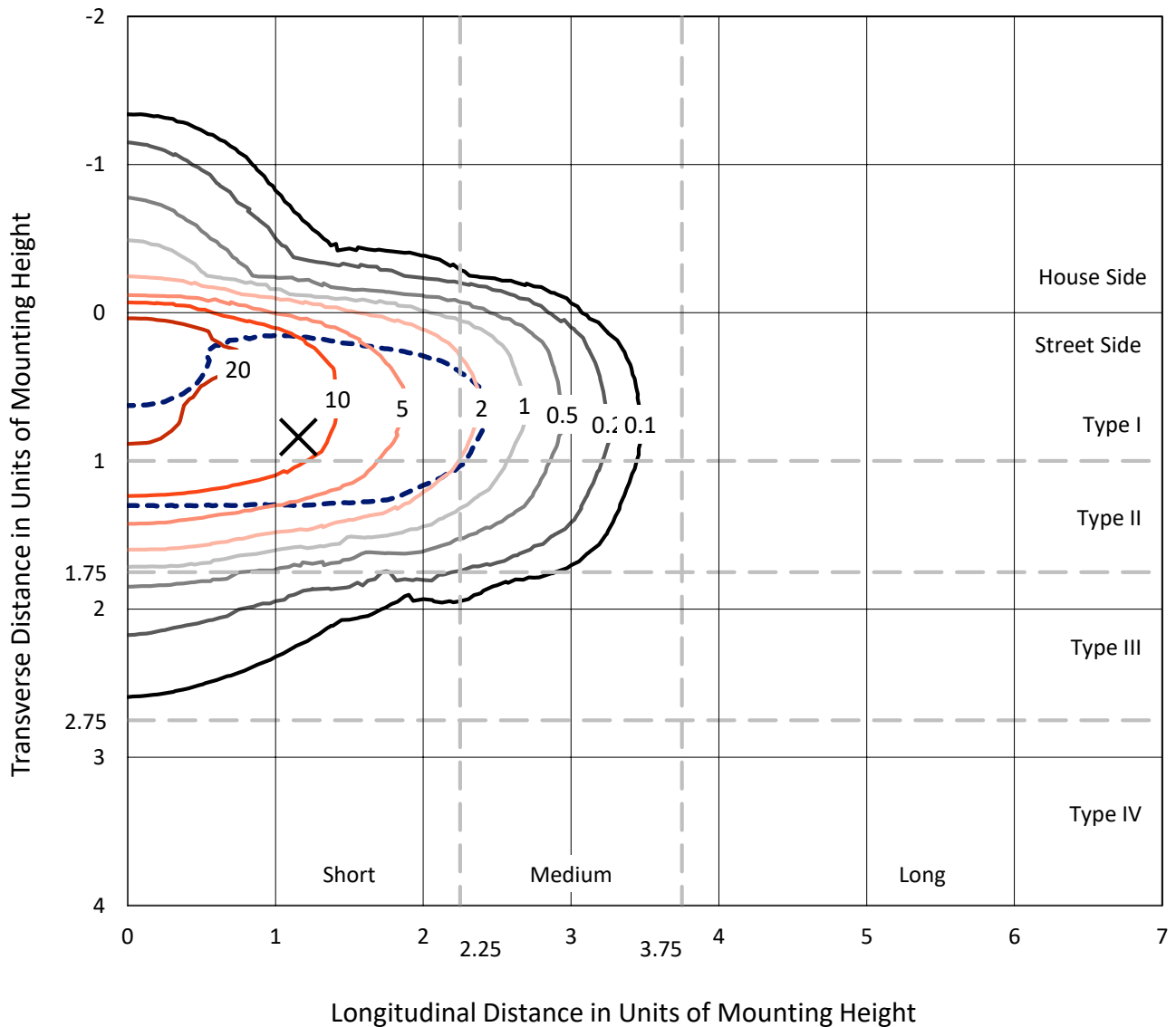
Input Watts (W): 501  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P383665  
 CATALOG NUMBER: GLEON-SA9C-735-U-AFL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

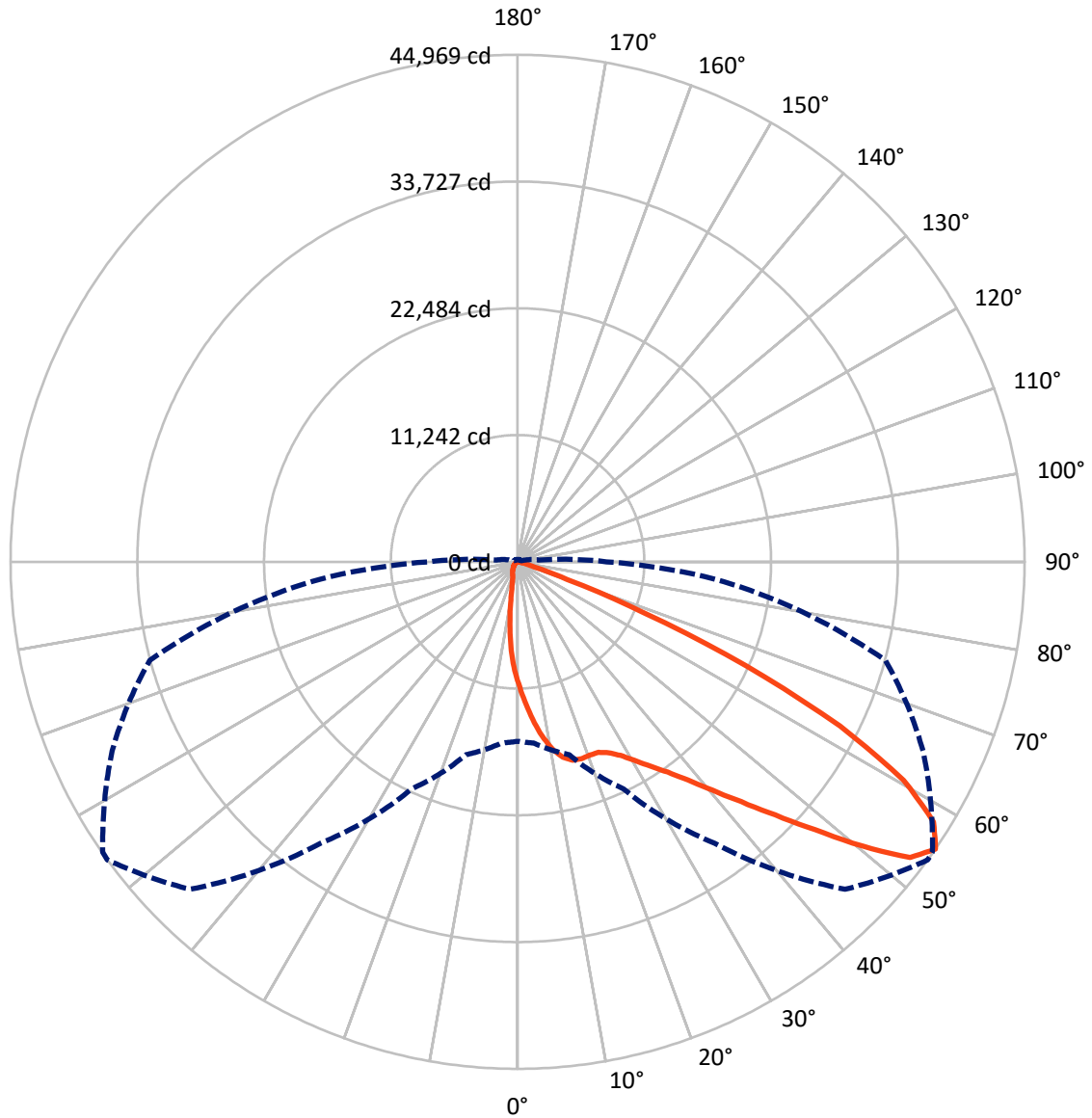
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P383665  
CATALOG NUMBER: GLEON-SA9C-735-U-AFL-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P383665  
 CATALOG NUMBER: GLEON-SA9C-735-U-AFL-HSS

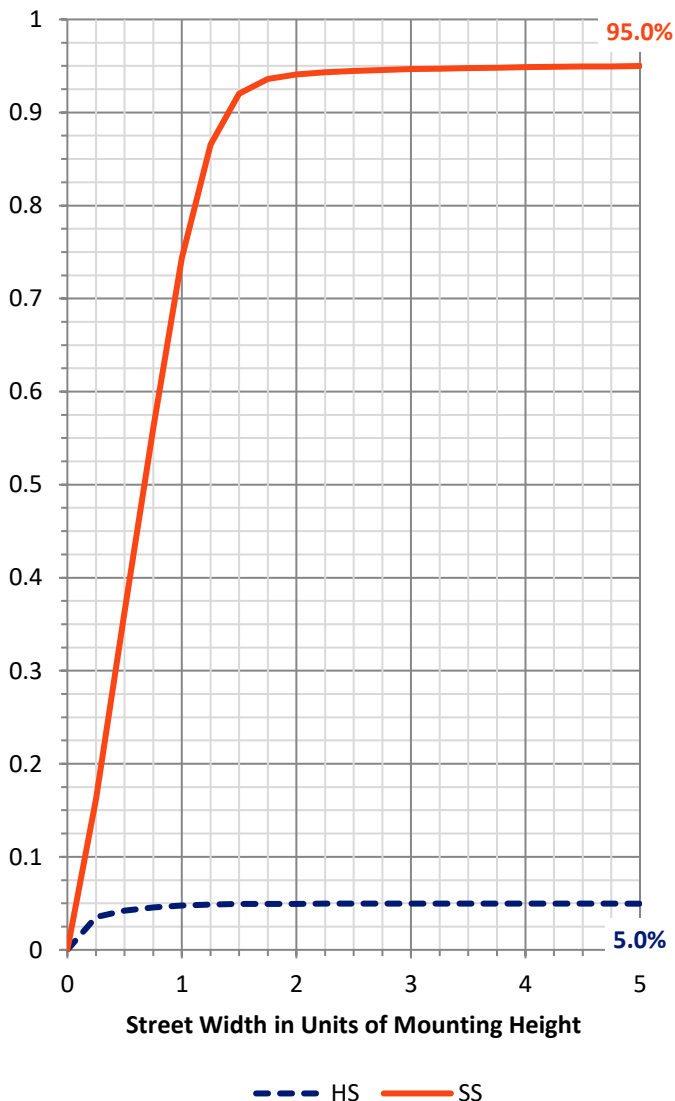
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2405.9	0.0	2405.9
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	45815.7	0.0	45815.7
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	48221.6	0.0	48221.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	994.5	2.1
10°-20°	2727.5	5.7
20°-30°	4656.8	9.7
30°-40°	7473.4	15.5
40°-50°	11942.5	24.8
50°-60°	12796.7	26.5
60°-70°	6570.2	13.6
70°-80°	995.2	2.1
80°-90°	64.8	0.1
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°	48221.6	100.0
0°-180°	48221.6	100.0

**Coefficient of Utilization**



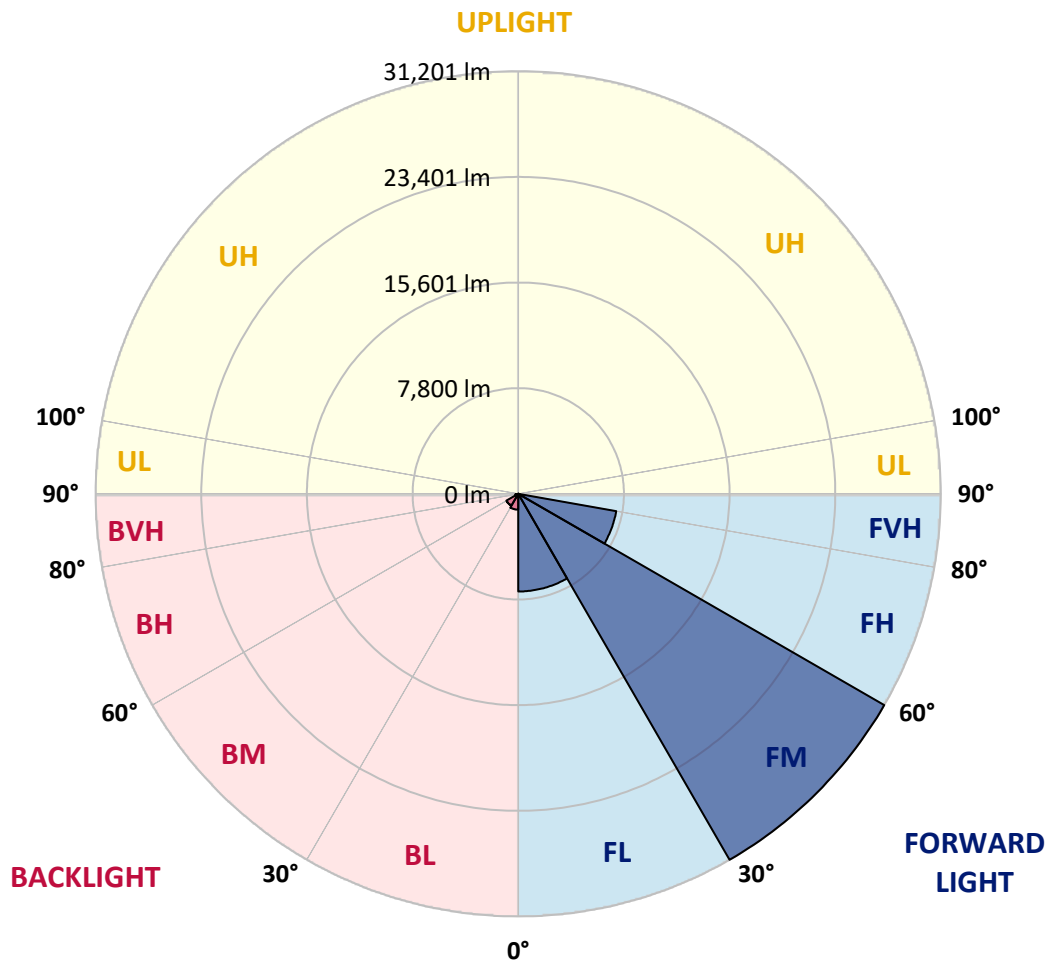
REPORT NUMBER: P383665  
 CATALOG NUMBER: GLEON-SA9C-735-U-AFL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7208.3	14.9			
FM (30°-60°)	31201.5	64.7			
FH (60°-80°)	7343.7	15.2			G3/7500
FVH (80°-90°)	62.2	0.1			G1/100
BL (0°-30°)	1170.6	2.4	B3/2500		
BM (30°-60°)	1011.0	2.1	B2/2500		
BH (60°-80°)	221.7	0.5	B1/500		G1/500
BVH (80°-90°)	2.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





REPORT NUMBER: P383665

CATALOG NUMBER: GLEON-SA9C-735-U-AFL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10799.7	10799.7	10799.7	10799.7	10799.7	10799.7	10799.7	10799.7	10799.7	10799.7	10799.7
2.5°	13552.7	13350.8	13357.0	13265.3	12930.1	12667.7	12394.9	12330.3	11905.5	11459.8	11030.8
5°	15895.5	15747.6	15712.2	15535.2	15068.7	14575.2	14046.2	13923.4	13092.5	12180.4	11282.8
7.5°	17099.2	17101.3	17072.1	17007.5	16716.0	16237.1	15591.5	15462.4	14331.6	12963.4	11545.2
10°	16749.3	16828.4	16990.9	17205.4	17428.2	17367.8	16882.6	16766.0	15537.3	13792.2	11836.8
12.5°	15933.0	15943.4	16124.5	16476.5	17117.9	17776.0	17784.3	17744.8	16689.0	14658.6	12157.4
15°	15526.9	15566.4	15633.1	15860.1	16468.2	17521.9	18275.8	18332.0	17744.8	15578.9	12498.9
17.5°	15793.5	15849.7	15793.5	15820.6	16172.5	17120.0	18361.2	18504.8	18667.3	16489.0	12821.7
20°	16516.1	16568.1	16468.2	16357.8	16426.5	17003.4	18300.7	18494.4	19389.9	17297.0	13092.5
22.5°	17490.6	17511.5	17359.5	17178.3	17128.4	17399.1	18350.7	18550.7	19968.8	18028.0	13263.3
25°	18563.1	18581.9	18392.4	18184.2	18065.4	18175.8	18761.0	18910.9	20479.0	18725.6	13361.1
27.5°	19731.4	19748.1	19510.7	19254.5	19117.1	19121.2	19437.8	19598.2	21022.5	19521.0	13440.3
30°	20966.3	20958.0	20739.3	20383.2	20208.3	20204.1	20412.4	20574.8	21809.7	20541.5	13548.5
32.5°	22353.2	22336.6	22026.3	21584.8	21386.9	21416.1	21601.5	21695.2	22786.4	21628.6	13742.2
35°	24179.5	24131.6	23663.1	23115.4	22751.0	22740.6	22896.8	22971.8	24031.7	22944.7	14065.0
37.5°	26549.4	26505.7	25870.6	25075.0	24562.8	24371.1	24556.5	24652.3	25808.1	24633.6	14583.6
40°	28886.0	28842.2	28465.3	27736.5	26947.2	26487.0	26632.8	26734.8	28025.9	26682.7	15237.4
42.5°	30497.8	30535.3	30666.5	30726.8	29987.5	29021.3	29087.9	29194.1	30356.2	28873.5	15985.1
45°	30922.6	31003.9	31745.2	33200.8	33477.8	32724.0	32026.3	32084.6	32724.0	31064.2	16732.6
47.5°	29646.0	29796.0	31226.7	33933.9	36278.7	36811.9	35491.6	35414.5	34995.9	32836.4	17263.7
50°	26745.2	26882.6	28736.0	32740.6	37128.4	40714.4	39644.0	39417.0	36988.9	33896.4	17451.1
52.5°	22546.9	22713.6	24219.1	28983.8	35527.0	42455.4	43575.7	43386.2	38450.7	33979.7	17482.4
55°	15922.6	16124.5	17717.7	22213.7	30452.0	41070.5	44968.9	44912.6	39664.8	33758.9	17549.0
57.5°	8948.4	9094.1	10812.2	14239.9	22303.3	35772.7	43513.2	43886.0	40397.9	33375.8	17648.9
60°	3973.3	4012.9	4902.2	7088.7	13057.1	27338.7	39346.2	39975.1	39769.0	32863.5	17817.6
62.5°	2203.3	2169.9	2169.9	2946.7	5674.7	16924.3	32084.6	33123.8	37084.6	32257.4	17825.9
65°	1726.3	1695.1	1605.6	1618.1	2161.6	7511.4	22217.9	24065.0	31986.7	30481.2	17226.2
67.5°	1464.0	1436.9	1347.4	1312.0	1343.2	2478.1	12207.5	14125.4	24271.2	25864.3	14920.9
70°	1237.0	1218.3	1172.4	1128.7	1049.6	1224.5	4671.0	5974.6	14956.3	17205.4	10185.4
72.5°	995.5	987.1	1003.7	966.3	870.4	816.3	1597.2	1934.6	6718.0	7678.1	4196.2
75°	858.0	853.9	862.1	824.7	716.4	568.5	812.1	887.1	1895.0	1878.4	849.7
77.5°	558.1	564.3	714.3	697.6	616.4	379.0	420.7	453.9	574.8	431.0	258.2
80°	356.1	351.9	362.4	579.0	553.9	289.4	210.3	220.8	276.9	212.4	124.9
82.5°	216.6	212.4	237.4	270.7	279.1	202.0	129.1	131.2	172.8	137.4	66.6
85°	18.7	25.0	143.6	133.3	95.8	62.5	62.5	66.6	91.7	81.2	37.4
87.5°	0.0	0.0	25.0	37.4	20.9	22.9	22.9	25.0	35.4	35.4	18.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P383665

CATALOG NUMBER: GLEON-SA9C-735-U-AFL-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10799.7	10799.7	10799.7	10799.7	10799.7	10799.7	10799.7	10799.7	10799.7	10799.7	10799.7
2.5°	10808.0	10591.4	10154.1	9733.5	9377.3	9033.8	8642.2	8254.9	8073.7	8000.9	7925.9
5°	10826.7	10381.1	9479.4	8571.4	7630.2	6782.6	6060.0	5318.7	4947.9	4785.5	4710.6
7.5°	10851.8	10172.9	8715.2	7190.8	5674.7	4525.2	3521.4	2875.9	2596.9	2553.1	2444.8
10°	10855.9	9920.9	7828.0	5666.4	3804.7	2728.0	2099.1	1765.9	1643.1	1622.3	1586.8
12.5°	10864.3	9623.1	6843.0	4196.2	2536.4	1824.2	1518.1	1407.8	1374.4	1372.4	1372.4
15°	10889.2	9310.7	5820.5	3023.7	1822.2	1445.2	1332.8	1289.1	1276.6	1282.8	1280.7
17.5°	10889.2	8942.1	4816.8	2253.2	1472.3	1299.4	1237.0	1207.8	1203.7	1209.9	1212.0
20°	10810.1	8494.4	3896.3	1753.5	1305.8	1205.8	1149.5	1122.4	1112.1	1116.2	1118.3
22.5°	10620.6	7944.6	3146.6	1451.4	1195.4	1120.4	1060.0	1018.4	1001.7	1003.7	1003.7
25°	10324.9	7292.8	2461.5	1255.7	1105.7	1028.7	957.9	910.0	899.6	897.5	901.7
27.5°	9945.9	6572.3	1959.6	1105.7	999.6	926.7	855.9	816.3	808.0	810.1	812.1
30°	9573.1	5824.7	1545.2	978.8	880.9	812.1	758.0	739.3	739.3	745.5	747.6
32.5°	9231.6	5106.2	1222.4	868.4	774.7	712.2	681.0	678.9	689.3	693.4	695.6
35°	8937.9	4441.9	1012.1	783.0	691.4	637.3	626.8	635.1	647.6	656.0	658.0
37.5°	8729.7	3848.4	885.1	712.2	626.8	583.1	581.0	597.7	614.4	633.1	637.3
40°	8642.2	3346.5	797.6	649.8	574.8	541.4	535.2	558.1	589.3	616.4	620.6
42.5°	8569.4	2936.2	722.6	589.3	533.1	485.2	483.1	512.3	549.8	576.8	583.1
45°	8506.9	2607.2	653.9	524.7	479.0	416.5	422.7	460.2	489.3	518.5	524.7
47.5°	8377.8	2336.5	579.0	456.1	395.6	356.1	368.6	402.0	424.8	468.6	474.8
50°	8146.7	2115.8	501.9	372.8	322.8	308.2	327.0	349.9	379.0	416.5	420.7
52.5°	7990.4	1949.2	435.2	312.3	266.5	270.7	289.4	297.8	314.5	329.0	324.8
55°	7900.9	1857.6	381.1	270.7	227.0	239.5	243.7	233.3	224.9	210.3	204.1
57.5°	7890.5	1774.2	339.5	235.3	199.9	206.2	191.6	156.2	127.1	110.4	106.2
60°	7873.8	1672.2	306.1	197.9	177.0	168.7	137.4	85.4	60.4	56.3	56.3
62.5°	7692.6	1514.0	281.1	166.6	150.0	127.1	79.1	39.6	33.3	35.4	35.4
65°	7115.8	1293.2	256.2	135.4	118.7	91.7	39.6	22.9	12.5	14.5	14.5
67.5°	6049.6	1030.9	229.1	104.1	89.5	58.3	22.9	10.4	0.0	0.0	0.0
70°	4050.4	639.3	193.7	72.8	58.3	35.4	16.7	2.0	0.0	0.0	0.0
72.5°	1553.5	345.7	156.2	43.7	37.4	25.0	10.4	0.0	0.0	0.0	0.0
75°	349.9	227.0	108.2	31.2	27.1	16.7	4.2	0.0	0.0	0.0	0.0
77.5°	133.3	164.5	62.5	20.9	18.7	10.4	0.0	0.0	0.0	0.0	0.0
80°	64.6	97.9	29.2	12.5	10.4	4.2	0.0	0.0	0.0	0.0	0.0
82.5°	33.3	37.4	12.5	6.2	4.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.7	18.7	6.2	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.4	6.2	2.0	2.0	0.0	0.0	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)