

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: P382700

Luminaire Tested: **GLEON-SA0D-735-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382700
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0D-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57746.6 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

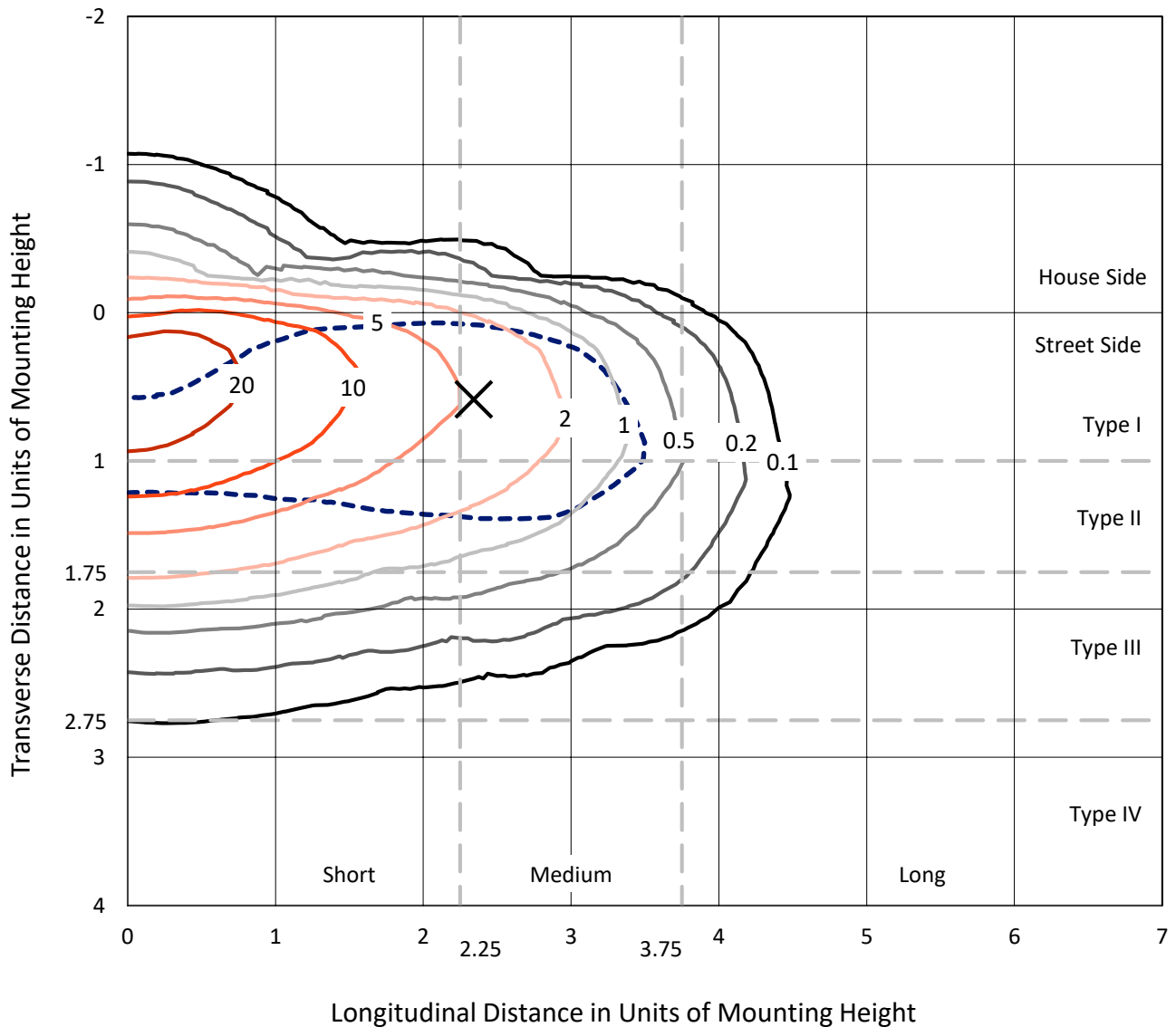
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P382700
 CATALOG NUMBER: GLEON-SA0D-735-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

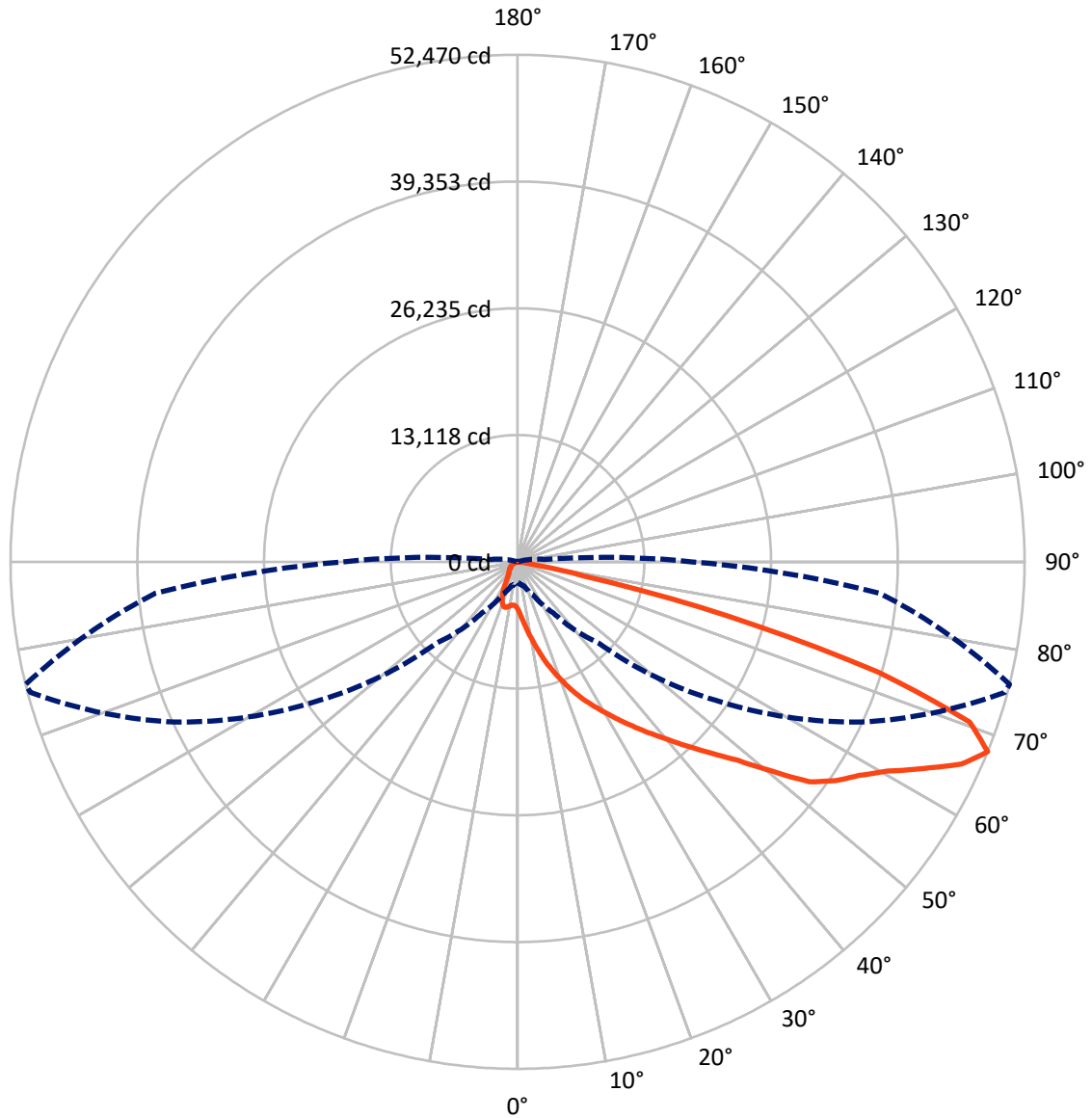
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.6 fc
 Type II - Medium - N/A

REPORT NUMBER: P382700
CATALOG NUMBER: GLEON-SA0D-735-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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 CATALOG NUMBER: GLEON-SA0D-735-U-T2R-HSS

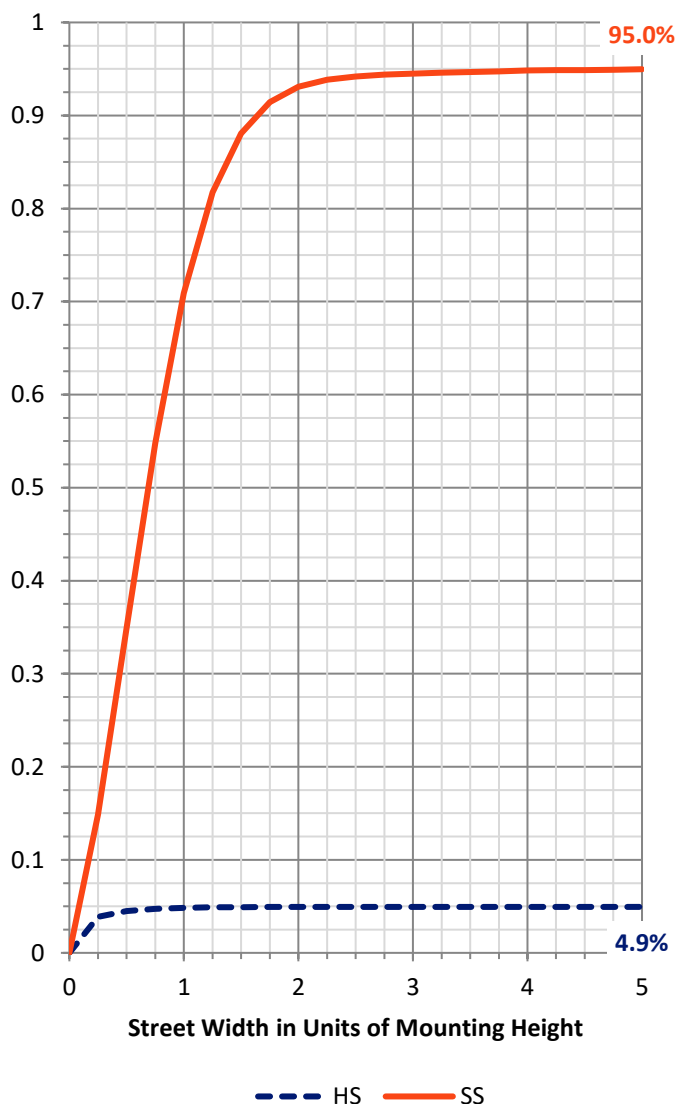
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2867.5	0.0	2867.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	54879.1	0.0	54879.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	57746.6	0.0	57746.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	609.1	1.1
10°-20°	2414.7	4.2
20°-30°	4913.1	8.5
30°-40°	8527.5	14.8
40°-50°	12048.3	20.9
50°-60°	13663.4	23.7
60°-70°	11332.5	19.6
70°-80°	4104.9	7.1
80°-90°	133.1	0.2
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°	57746.6	100.0
0°-180°	57746.6	100.0

Coefficient of Utilization

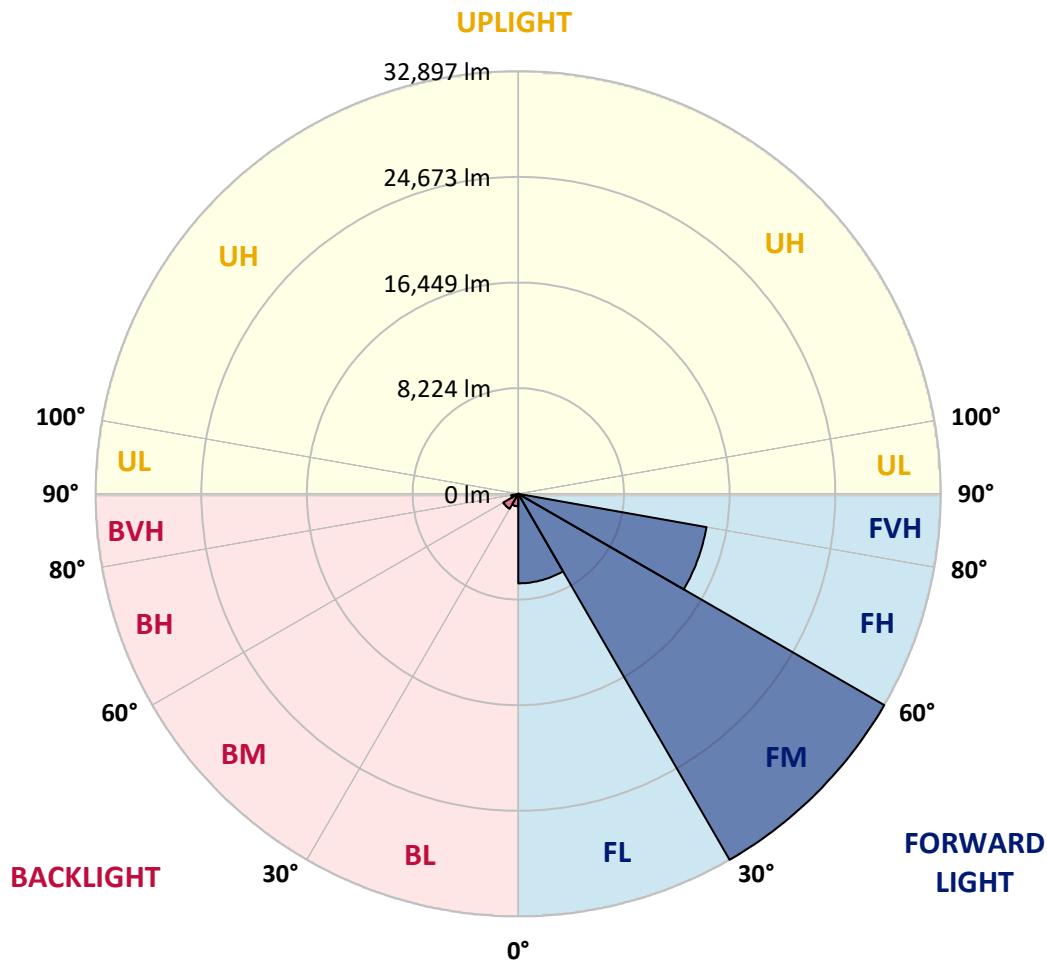


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 CATALOG NUMBER: GLEON-SA0D-735-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6969.8	12.1			
FM (30°-60°)	32897.1	57.0			
FH (60°-80°)	14883.2	25.8			G5
FVH (80°-90°)	128.9	0.2			G2/225
BL (0°-30°)	967.1	1.7	B2/1000		
BM (30°-60°)	1342.1	2.3	B2/2500		
BH (60°-80°)	554.2	1.0	B2/1000		G2/1000
BVH (80°-90°)	4.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5
2.5°	7312.5	7148.0	7186.0	7079.7	6887.4	6492.6	6156.1	5837.4	5465.4	5452.7	5146.5
5°	9860.4	9721.3	9703.6	9488.5	9139.3	8468.8	7816.0	7072.1	6242.1	6181.5	5531.2
7.5°	12173.1	12061.8	12021.2	11765.7	11115.4	10462.7	9612.5	8519.4	7221.4	7110.0	6049.8
10°	13949.4	13896.2	13906.3	13724.1	13167.5	12560.2	11444.3	10050.2	8332.1	8160.1	6672.3
12.5°	15295.5	15308.1	15399.1	15287.8	14976.6	14526.3	13334.5	11682.3	9561.9	9326.6	7383.3
15°	16284.8	16348.0	16515.0	16654.2	16631.4	16241.7	15148.6	13339.6	10867.4	10606.9	8175.3
17.5°	16924.9	16995.8	17238.7	17547.4	17830.8	17739.6	16899.6	14938.7	12188.3	11887.2	9022.9
20°	17486.6	17570.1	17830.8	18238.1	18767.0	18880.8	18329.2	16489.7	13506.5	13139.7	9898.3
22.5°	18703.7	18701.2	18860.6	19098.4	19601.9	19895.4	19546.3	17929.4	14809.7	14427.5	10791.6
25°	20905.0	20821.5	20765.9	20578.6	20690.0	20872.2	20677.3	19275.5	16120.3	15733.2	11697.4
27.5°	23521.3	23571.9	23121.6	22618.0	22228.3	22041.1	21722.3	20522.9	17380.3	16955.3	12583.0
30°	26281.8	26297.0	25765.7	25123.0	24265.2	23554.2	23002.6	21714.7	18675.9	18212.8	13443.3
32.5°	28771.6	28672.9	28146.6	27271.1	26188.2	25388.7	24242.4	23045.6	20047.3	19599.4	14399.7
35°	30745.2	30628.8	29988.7	29191.6	28068.2	27263.6	25884.5	24374.0	21489.5	21051.8	15358.7
37.5°	32187.5	32050.8	31393.0	30573.1	29604.0	29135.9	27789.8	25818.8	23063.3	22592.7	16368.2
40°	32688.5	32569.5	32157.1	31557.4	30778.1	30671.9	29811.6	27481.2	24776.4	24275.3	17512.0
42.5°	32389.9	32273.5	32126.7	31924.3	31600.4	31701.7	31719.4	29376.4	26679.1	26185.7	18774.5
45°	31205.7	31102.0	31253.8	31549.8	31952.2	32453.2	33460.2	31413.2	28804.5	28278.2	20234.5
47.5°	29462.3	29386.5	29806.4	30545.4	31721.9	33103.4	35051.7	33553.8	31190.5	30702.2	22056.3
50°	26982.7	26970.1	27810.1	29158.7	30967.9	33417.1	36696.4	35987.9	34505.2	33991.5	24589.1
52.5°	23121.6	23146.8	24799.1	26957.4	29644.5	33204.6	37754.0	39115.3	38361.3	37827.4	26782.8
55°	19445.0	19596.9	20768.4	23880.6	27615.3	32415.2	38118.4	40575.3	40489.3	39983.2	28002.4
57.5°	15844.5	16120.3	17248.8	20156.1	24652.4	30595.9	37918.6	41207.8	42073.2	41686.1	29611.7
60°	11942.8	12069.3	13369.9	16087.4	20849.3	27276.2	36468.7	41552.0	44239.1	43970.9	31947.1
62.5°	7598.4	7914.6	9068.4	11689.8	16234.2	22666.0	34024.4	41546.9	46949.0	47095.8	34960.6
65°	4002.9	4372.3	4984.6	7244.2	11155.9	17517.0	30348.0	41157.3	50273.8	50478.7	37316.3
67.5°	2158.3	2264.6	2588.5	3760.0	6469.9	11866.9	24945.8	39234.3	52199.3	52470.1	37645.2
70°	1578.9	1637.1	1758.6	2079.9	3256.4	6892.4	18202.7	34874.6	49717.2	49615.9	33447.5
72.5°	1212.0	1303.0	1394.2	1523.2	1872.4	3679.0	11333.0	27309.2	39669.5	39001.5	25001.5
75°	956.4	971.6	1100.6	1217.1	1404.3	2095.1	5032.7	15905.2	24212.0	22630.6	12965.1
77.5°	764.1	774.3	850.1	951.4	1128.5	1376.5	1558.7	6257.3	7730.0	6897.5	2813.6
80°	452.9	478.3	632.5	733.8	936.2	867.9	569.3	1358.8	1206.9	1093.1	473.1
82.5°	253.0	273.2	356.8	579.4	652.8	415.0	283.4	366.8	283.4	275.8	134.1
85°	0.0	12.7	230.3	359.3	265.7	91.1	119.0	121.5	83.5	78.4	53.1
87.5°	0.0	0.0	70.9	68.3	10.2	15.2	27.9	40.5	32.9	32.9	27.9
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: P382700

CATALOG NUMBER: GLEON-SA0D-735-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5
2.5°	4994.8	4858.1	4600.0	4347.0	4134.5	3959.8	3802.9	3739.7	3689.1	3681.6	3641.0
5°	5217.4	4941.6	4448.2	4043.4	3772.6	3580.3	3415.9	3314.6	3236.2	3205.8	3178.0
7.5°	5553.9	5136.5	4427.9	3962.4	3638.5	3314.6	3011.0	2682.1	2477.2	2398.6	2353.2
10°	5963.9	5394.5	4503.8	3939.6	3372.9	2689.7	2186.2	1768.6	1599.1	1543.5	1528.3
12.5°	6442.0	5715.9	4635.5	3797.9	2806.1	1910.3	1508.1	1366.3	1328.4	1310.7	1310.7
15°	6991.1	6067.5	4729.1	3388.0	2074.8	1444.7	1305.7	1239.8	1199.4	1176.5	1179.1
17.5°	7552.8	6411.7	4683.5	2793.4	1530.8	1285.3	1181.7	1110.8	1055.2	1032.3	1027.3
20°	8119.6	6730.5	4430.5	2079.9	1295.5	1166.5	1050.0	971.6	916.0	893.2	888.1
22.5°	8706.6	7001.2	3985.2	1525.8	1163.9	1034.9	921.0	842.6	789.5	769.2	759.1
25°	9278.5	7221.4	3362.7	1234.8	1040.0	910.9	802.1	728.7	680.7	660.4	657.9
27.5°	9812.4	7360.5	2641.6	1090.6	931.2	799.5	700.9	635.1	594.6	579.4	576.9
30°	10293.1	7373.2	1953.4	984.3	834.9	703.4	612.3	554.1	518.7	503.5	498.5
32.5°	10778.9	7266.9	1422.0	888.1	746.4	619.9	531.4	485.8	460.5	447.9	447.9
35°	11236.9	7021.4	1108.3	804.6	660.4	538.9	468.1	435.2	420.0	407.4	407.4
37.5°	11684.8	6669.8	941.2	731.3	579.4	470.6	412.4	392.2	379.5	366.8	366.8
40°	12140.2	6226.9	855.3	662.9	513.7	417.5	366.8	349.1	336.6	326.4	323.9
42.5°	12699.4	5715.9	799.5	599.6	455.4	369.5	323.9	303.6	293.5	283.4	278.3
45°	13347.1	5275.6	754.0	536.4	407.4	328.9	280.9	260.6	245.5	232.8	230.3
47.5°	14280.8	4956.8	693.3	468.1	361.8	285.9	242.9	220.1	197.4	184.7	182.2
50°	15472.5	4693.6	614.8	407.4	316.3	242.9	202.4	174.6	154.4	141.7	141.7
52.5°	16064.6	4349.5	544.0	354.3	265.7	204.9	164.5	131.5	121.5	108.8	108.8
55°	16302.5	4086.3	473.1	301.1	220.1	169.5	129.0	101.2	93.6	86.1	83.5
57.5°	16970.5	4010.5	412.4	255.5	182.2	134.1	98.7	75.9	70.9	60.7	60.7
60°	18045.8	4048.4	356.8	217.6	146.7	103.8	73.4	58.2	53.1	43.0	43.0
62.5°	19207.2	4000.3	301.1	187.2	113.8	75.9	50.6	43.0	43.0	25.3	22.7
65°	19429.8	3562.6	258.1	154.4	88.6	55.7	32.9	27.9	37.9	5.0	0.0
67.5°	18033.2	2763.1	222.6	119.0	65.8	43.0	25.3	12.7	32.9	0.0	0.0
70°	14420.0	1756.0	179.6	86.1	50.6	35.4	20.2	5.0	25.3	0.0	0.0
72.5°	10197.0	1019.7	141.7	60.7	43.0	27.9	15.2	0.0	15.2	0.0	0.0
75°	5156.7	544.0	88.6	45.6	32.9	20.2	10.2	0.0	2.5	0.0	0.0
77.5°	1115.8	253.0	55.7	32.9	22.7	12.7	5.0	0.0	0.0	0.0	0.0
80°	242.9	111.3	35.4	20.2	12.7	7.5	0.0	0.0	0.0	0.0	0.0
82.5°	88.6	58.2	17.7	10.2	5.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	48.1	30.4	10.2	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.3	10.2	2.5	2.5	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)