

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: P383528

Luminaire Tested: **GLEON-SA8B-735-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383528
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8B-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35338.3 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

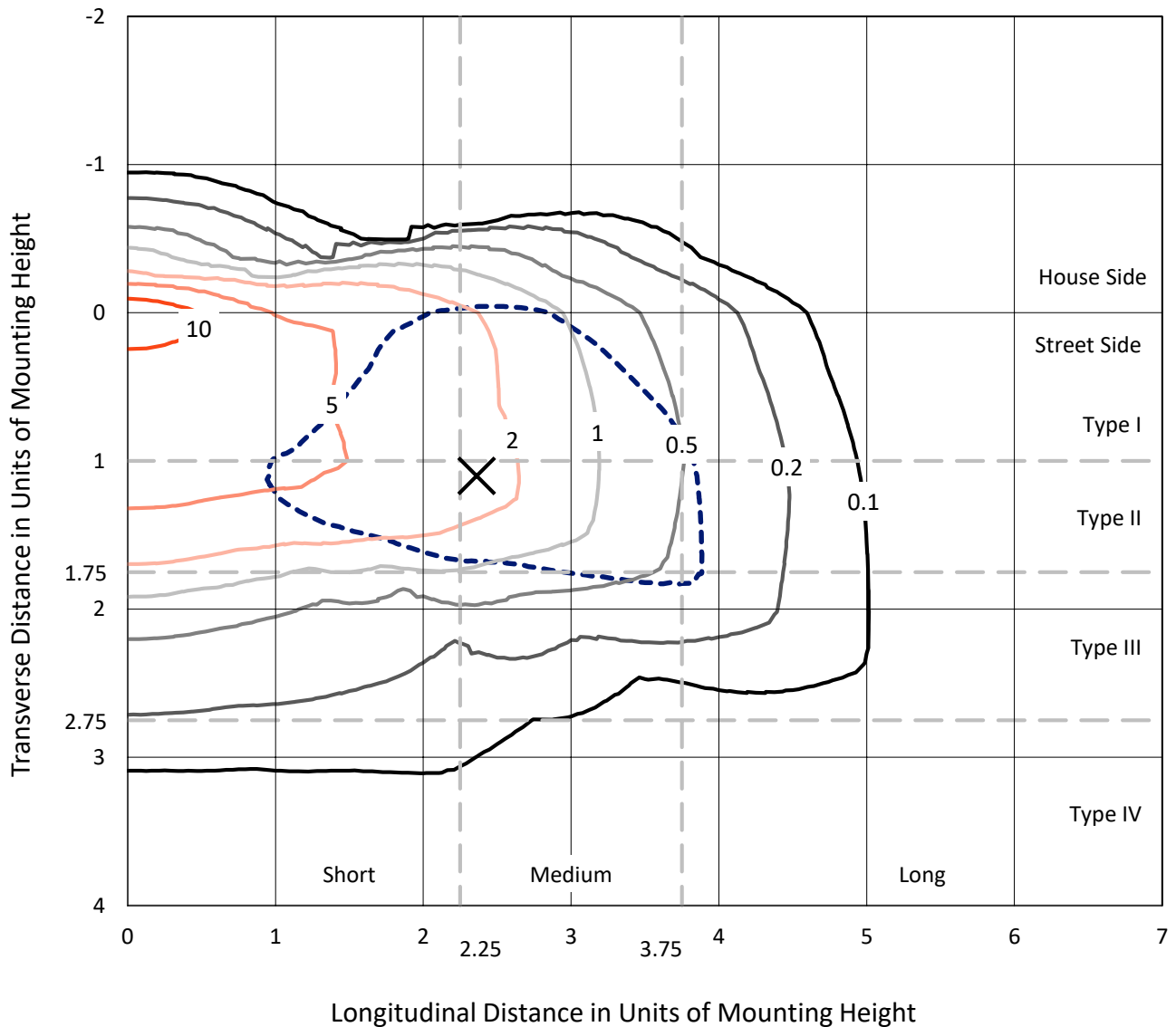
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

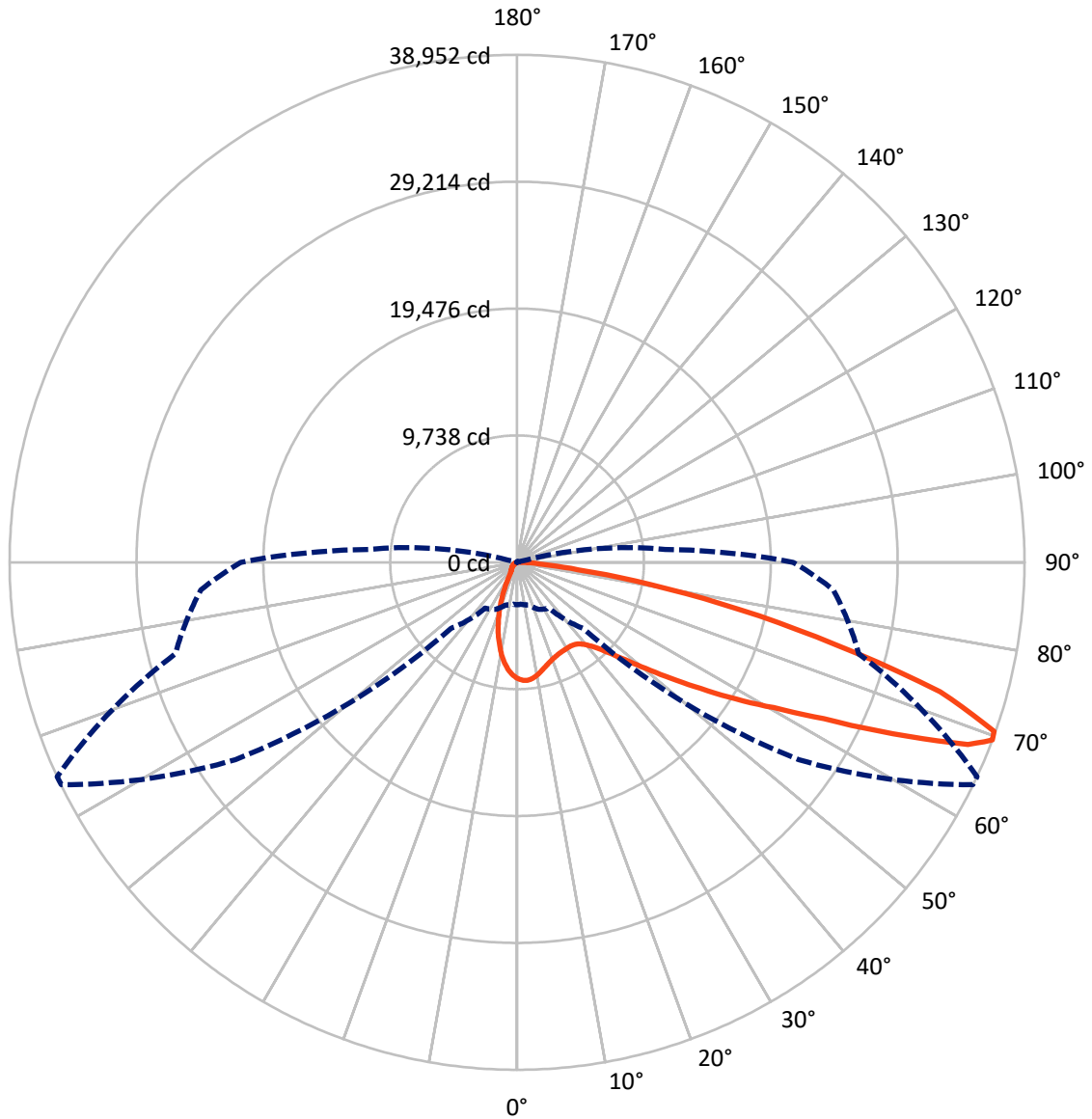
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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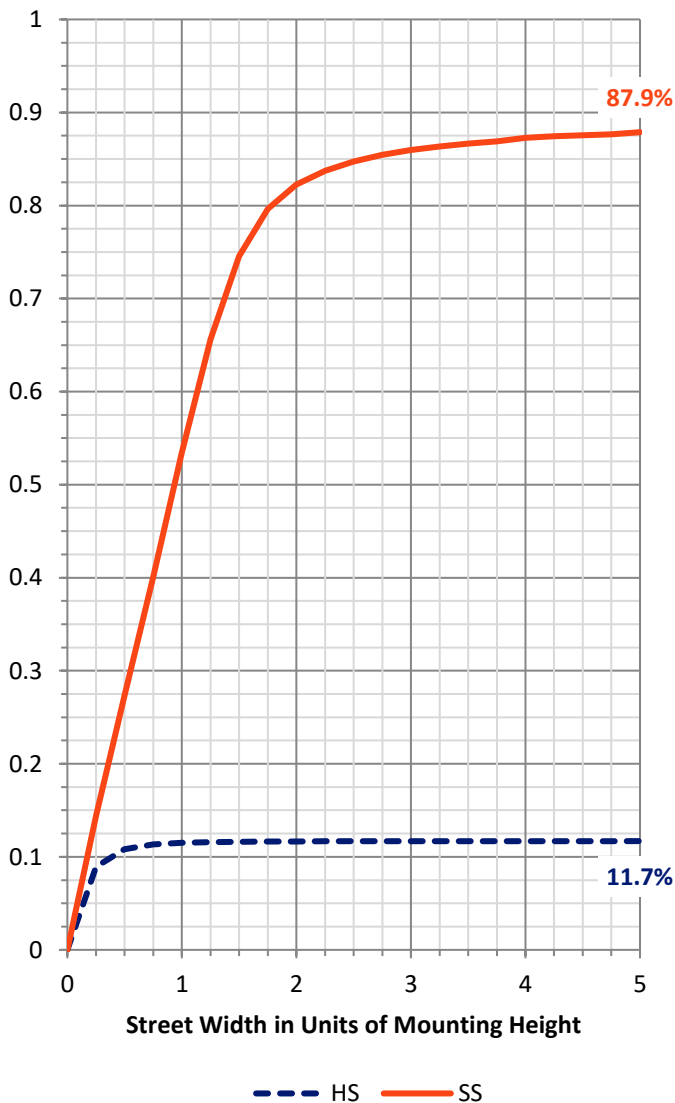
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4165.5	0.0	4165.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	31172.7	0.0	31172.7
	% Fixture	88.2	0.0	88.2
Total	Lumens	35338.3	0.0	35338.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	746.7	2.1
10°-20°	1634.6	4.6
20°-30°	2264.0	6.4
30°-40°	3156.8	8.9
40°-50°	4906.7	13.9
50°-60°	7877.1	22.3
60°-70°	8910.4	25.2
70°-80°	5233.1	14.8
80°-90°	608.7	1.7
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°	35338.3	100.0
0°-180°	35338.3	100.0

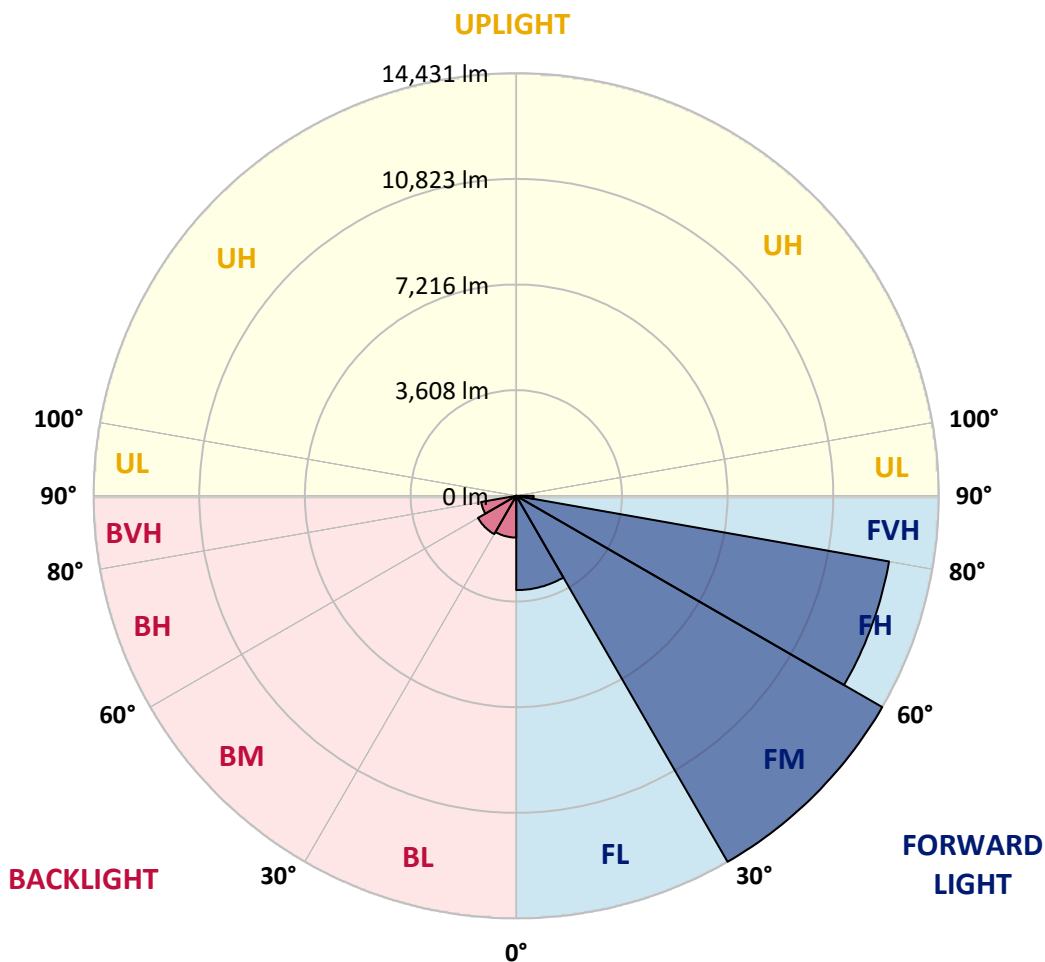


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3220.1	9.1			
FM (30°-60°)	14431.1	40.8			
FH (60°-80°)	12926.4	36.6			G5
FVH (80°-90°)	595.1	1.7			G4/750
BL (0°-30°)	1425.3	4.0	B3/2500		
BM (30°-60°)	1509.5	4.3	B2/2500		
BH (60°-80°)	1217.1	3.4	B3/2500		G3/2500
BVH (80°-90°)	13.7	0.0			G1/100
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°	64°	65°	75°	85°
0°	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0
2.5°	9009.3	8986.8	9004.8	9043.7	9063.1	9063.1	9078.1	9060.1	9066.1	9022.8	8959.9
5°	8445.6	8411.1	8460.5	8569.7	8704.3	8819.4	8989.8	9079.6	9088.6	9090.0	9016.7
7.5°	7838.4	7807.0	7880.3	8008.9	8182.3	8396.2	8693.8	8953.9	8968.9	9109.5	9055.7
10°	7345.0	7322.6	7407.8	7545.3	7748.7	7988.0	8352.8	8714.7	8758.0	9069.1	9049.7
12.5°	6953.3	6935.3	7016.0	7174.5	7382.4	7647.1	8028.4	8448.6	8506.9	8977.9	9019.8
15°	6667.6	6664.7	6731.9	6884.4	7114.7	7361.5	7751.7	8201.8	8269.1	8879.2	9015.2
17.5°	6518.1	6522.6	6571.9	6702.0	6899.4	7144.6	7518.4	7994.0	8067.2	8791.0	9037.7
20°	6503.1	6507.6	6534.5	6607.8	6767.8	6984.7	7328.6	7819.0	7895.2	8725.2	9073.6
22.5°	6634.8	6631.8	6639.2	6631.8	6721.5	6885.9	7202.9	7684.4	7772.6	8681.8	9102.0
25°	6887.4	6882.9	6879.9	6824.6	6764.8	6853.0	7150.7	7608.1	7691.9	8650.4	9118.5
27.5°	7238.9	7235.9	7231.3	7140.1	6960.7	6905.4	7156.6	7579.7	7650.1	8625.0	9115.5
30°	7700.9	7721.8	7715.8	7588.8	7309.1	7065.4	7219.4	7564.8	7626.1	8575.6	9084.1
32.5°	8243.7	8285.6	8318.4	8182.3	7832.5	7382.4	7364.4	7581.3	7626.1	8538.3	9027.3
35°	8807.4	8861.3	8982.4	8934.6	8474.0	7859.4	7614.2	7680.0	7717.3	8559.2	9000.3
37.5°	9362.1	9426.5	9689.7	9828.8	9314.4	8490.4	8002.9	7923.7	7943.1	8686.3	9030.2
40°	10006.7	10103.8	10503.1	10727.4	10317.7	9335.2	8584.6	8342.4	8349.8	8966.0	9169.3
42.5°	10853.0	10953.2	11385.4	11736.8	11448.2	10403.0	9374.2	8982.4	8974.9	9489.3	9496.8
45°	11884.8	11989.5	12436.5	12826.9	12696.7	11668.0	10385.0	9917.0	9907.9	10314.7	10117.4
47.5°	13054.1	13157.3	13556.5	13958.8	14099.3	13145.3	11672.5	11192.5	11171.5	11461.6	11075.8
50°	14057.5	14124.8	14492.6	15034.0	15668.0	14960.7	13273.9	12811.9	12789.5	12985.3	12482.9
52.5°	14422.3	14461.3	14835.1	15593.2	17175.2	17418.9	15377.9	14782.7	14766.2	14851.5	14356.5
55°	13683.7	13753.9	14213.0	15337.5	17991.6	20197.3	18033.6	17223.1	17098.9	16915.0	16315.4
57.5°	11671.0	11783.1	12276.6	13771.9	17610.3	22401.4	21936.4	19983.5	19801.0	18676.5	17907.9
60°	8744.6	8882.2	9291.9	10905.3	15575.2	23186.4	26201.0	23059.3	22648.1	20079.1	19371.8
62.5°	6000.8	6069.5	6347.7	7398.8	11470.6	21900.4	29768.8	27178.9	26428.3	21604.4	20955.3
65°	4583.1	4607.1	4720.7	5082.6	6830.6	17789.8	31187.8	32614.4	31706.7	23428.6	22598.8
67.5°	3693.4	3674.0	3831.0	4348.4	4574.2	10853.0	29532.6	37756.7	37332.1	25867.5	24252.6
69°	3256.8	3229.9	3389.9	3991.0	4296.0	7174.5	26401.4	38924.6	38951.5	27155.0	24366.2
70°	2930.8	2948.7	3107.3	3778.6	4201.8	5631.4	23410.7	38627.1	38839.4	27636.5	23684.3
72.5°	1957.4	2005.2	2323.7	3137.2	4040.3	4261.6	14135.2	33146.7	33963.2	26552.4	20319.8
75°	1103.5	1139.5	1517.8	2365.6	3807.0	4058.3	7466.2	24420.1	25209.5	22204.0	15669.5
77.5°	541.3	560.7	858.3	1526.7	3183.6	3866.9	4234.7	16587.6	17489.2	14492.6	8862.7
80°	228.8	239.2	429.2	942.1	2275.9	3690.4	3144.6	10208.6	10320.7	5677.7	2361.1
82.5°	88.2	91.2	180.9	587.6	1445.9	2877.0	2630.2	4840.3	4723.7	1069.1	538.3
85°	10.4	11.9	65.8	352.9	804.5	1480.3	2136.8	2086.0	1930.4	212.3	276.7
87.5°	0.0	0.0	4.5	107.7	239.2	693.8	1111.1	865.8	780.5	68.7	143.6
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°	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0
2.5°	8907.6	8892.6	8811.9	8695.3	8584.6	8447.1	8315.5	8236.2	8173.4	8131.6	8180.9
5°	8931.5	8865.7	8620.5	8306.5	7998.5	7651.5	7328.6	7054.9	6947.2	6827.6	6881.4
7.5°	8924.0	8800.0	8358.9	7799.6	7234.3	6649.7	6096.4	5670.2	5448.9	5232.1	5287.5
10°	8886.7	8677.4	8008.9	7180.6	6334.2	5493.8	4708.8	4112.1	3778.6	3476.6	3519.9
12.5°	8804.4	8512.9	7596.2	6471.7	5339.8	4231.7	3312.1	2548.1	2138.3	1957.4	1979.8
15°	8755.1	8352.8	7159.6	5754.0	4278.1	2947.2	2024.6	1505.8	1318.9	1259.1	1266.5
17.5°	8731.1	8198.8	6708.0	4933.0	3192.5	1876.6	1308.4	1154.4	1114.0	1103.5	1106.5
20°	8707.3	8043.4	6243.0	4121.1	2199.6	1262.1	1075.1	1030.3	1015.3	1001.9	1004.9
22.5°	8666.8	7893.7	5743.5	3298.7	1483.4	1024.3	969.0	925.6	894.2	877.8	880.8
25°	8617.6	7736.8	5233.6	2456.8	1082.6	913.7	861.3	800.0	762.7	732.7	734.2
27.5°	8538.3	7543.9	4707.3	1788.4	909.2	817.9	747.7	680.4	617.5	583.1	583.1
30°	8427.6	7325.6	4122.6	1279.9	814.9	723.7	638.5	554.7	487.5	456.1	453.1
32.5°	8305.0	7098.3	3532.0	970.5	740.2	635.5	538.3	450.1	390.3	364.9	363.4
35°	8200.3	6853.0	2942.8	813.4	665.4	550.3	444.1	369.4	321.5	300.5	299.0
37.5°	8133.1	6607.8	2368.6	726.7	598.1	471.0	372.3	305.1	270.6	254.2	252.7
40°	8122.5	6425.3	1843.7	660.9	535.4	400.8	311.0	258.7	227.3	209.3	207.8
42.5°	8258.6	6320.7	1414.6	605.6	471.0	339.5	264.7	221.3	188.5	170.5	169.0
45°	8616.0	6353.6	1088.6	556.2	406.7	287.1	224.3	183.9	154.0	140.6	137.6
47.5°	9268.0	6580.9	865.8	506.9	345.4	243.7	191.4	152.5	127.1	113.6	112.2
50°	10428.3	7114.7	723.7	453.1	288.6	207.8	158.5	124.1	103.2	91.2	89.7
52.5°	11968.5	8065.7	645.9	400.8	239.2	176.4	130.1	98.7	80.8	71.7	70.2
55°	13667.2	9217.1	595.2	343.9	195.9	146.5	103.2	77.8	62.8	55.3	52.4
57.5°	15325.5	10214.5	547.3	288.6	163.0	119.6	82.3	61.3	49.4	41.8	40.3
60°	16849.3	11131.2	492.0	231.8	133.1	94.2	64.3	47.9	38.8	31.4	31.4
62.5°	18480.6	11840.0	415.7	180.9	109.2	71.7	52.4	43.4	31.4	26.9	25.4
65°	20209.2	12366.3	325.9	140.6	85.2	53.8	43.4	44.9	25.4	19.5	18.0
67.5°	21486.2	12261.6	240.7	110.7	65.8	41.8	41.8	47.9	22.5	15.0	13.4
69°	21205.1	11410.8	201.9	95.7	56.8	35.9	38.8	47.9	21.0	13.4	11.9
70°	20390.2	10468.7	177.9	85.2	50.9	32.9	37.4	46.4	19.5	13.4	11.9
72.5°	16980.8	7884.8	139.1	64.3	40.3	26.9	31.4	40.3	19.5	13.4	10.4
75°	12773.0	5046.7	106.2	46.4	29.9	21.0	23.9	29.9	19.5	11.9	10.4
77.5°	6950.3	1819.8	76.3	31.4	21.0	16.5	16.5	22.5	18.0	8.9	6.0
80°	1786.9	457.6	47.9	21.0	16.5	11.9	10.4	15.0	10.4	1.5	0.0
82.5°	441.1	103.2	25.4	15.0	11.9	4.5	4.5	7.5	4.5	0.0	0.0
85°	242.2	50.9	16.5	10.4	6.0	0.0	0.0	1.5	0.0	0.0	0.0
87.5°	124.1	15.0	4.5	3.0	1.5	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)