

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: P324939

Luminaire Tested: **GLEON-SA5D-827-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324939  
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-SA5D-827-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 1200mA 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: 23337 lumens  
Efficiency: N/A  
Efficacy: 72.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

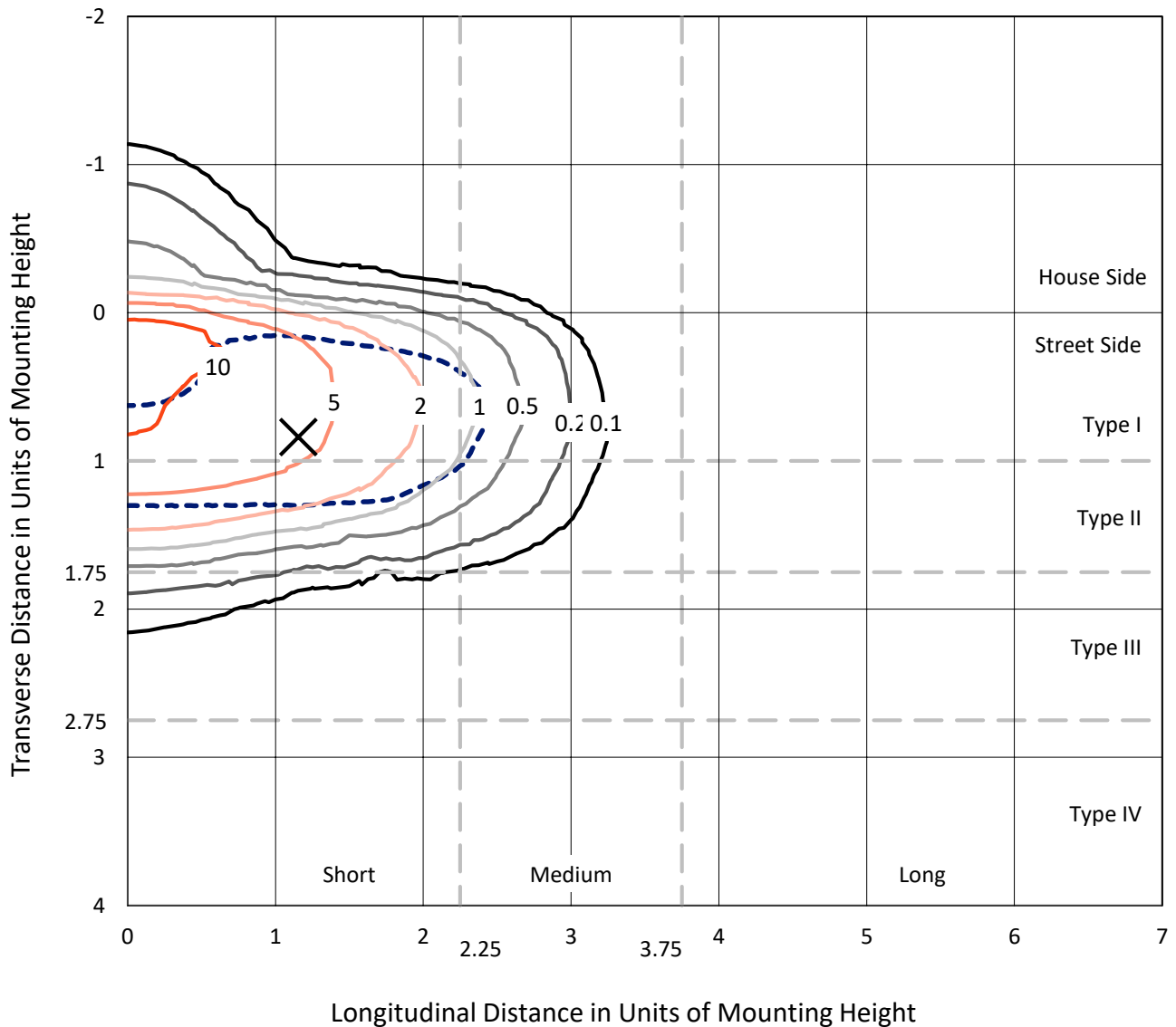
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

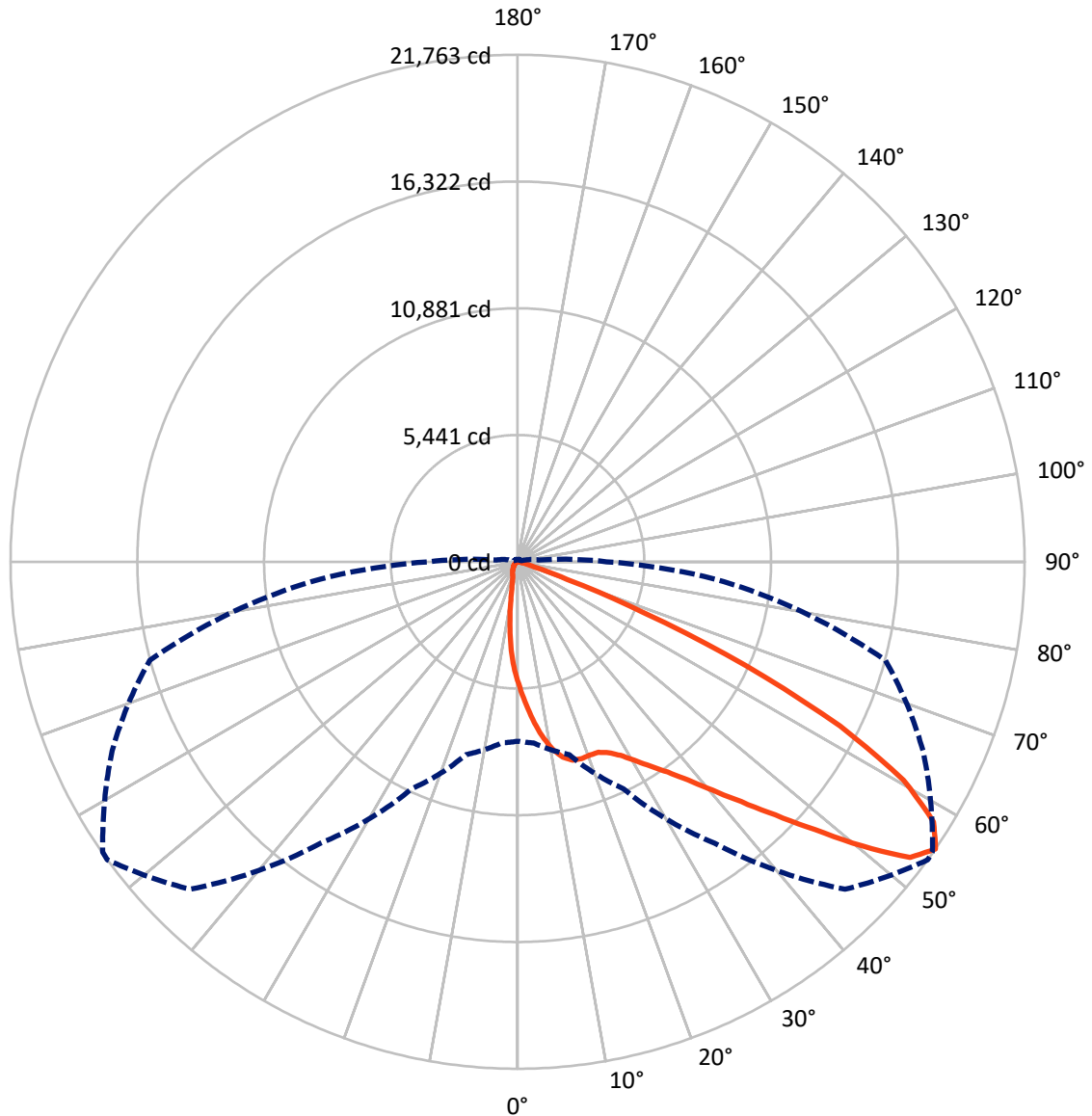
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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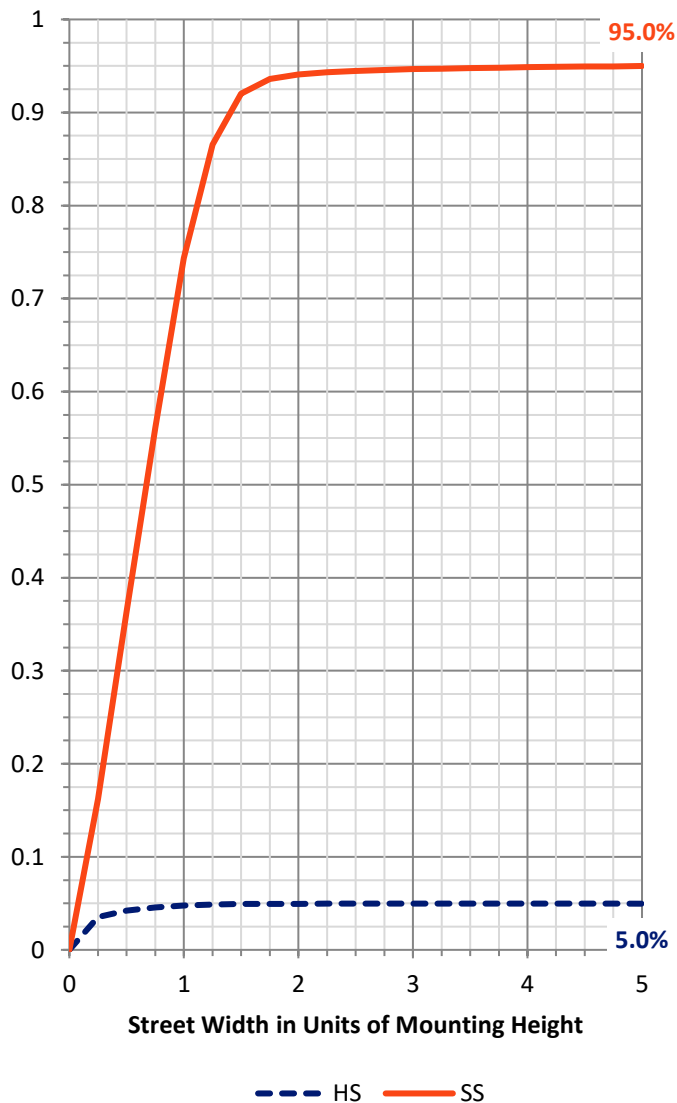
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1164.3	0.0	1164.3
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	22172.6	0.0	22172.6
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	23337.0	0.0	23337.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	481.3	2.1
10°-20°	1320.0	5.7
20°-30°	2253.7	9.7
30°-40°	3616.8	15.5
40°-50°	5779.6	24.8
50°-60°	6193.0	26.5
60°-70°	3179.7	13.6
70°-80°	481.6	2.1
80°-90°	31.4	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°	23337.0	100.0
0°-180°	23337.0	100.0

**Coefficient of Utilization**



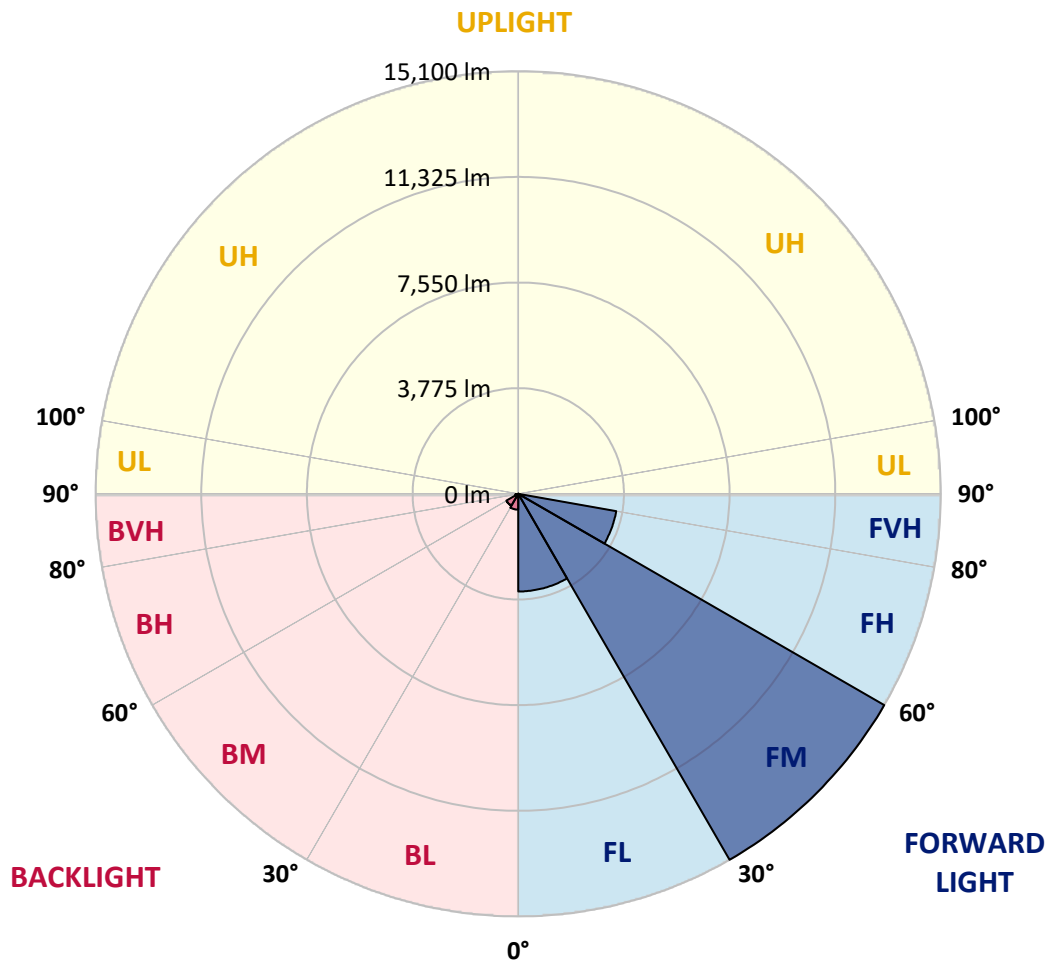
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3488.5	14.9			
FM (30°-60°)	15100.1	64.7			
FH (60°-80°)	3554.0	15.2			G2/5000
FVH (80°-90°)	30.1	0.1			G1/100
BL (0°-30°)	566.5	2.4	B2/1000		
BM (30°-60°)	489.3	2.1	B1/1000		
BH (60°-80°)	107.3	0.5	B0/110		G0/110
BVH (80°-90°)	1.3	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5226.6	5226.6	5226.6	5226.6	5226.6	5226.6	5226.6	5226.6	5226.6	5226.6	5226.6
2.5°	6558.9	6461.1	6464.2	6419.8	6257.6	6130.6	5998.5	5967.3	5761.7	5546.0	5338.4
5°	7692.7	7621.1	7604.0	7518.3	7292.6	7053.7	6797.7	6738.3	6336.2	5894.7	5460.4
7.5°	8275.2	8276.2	8262.1	8230.9	8089.8	7858.0	7545.5	7483.1	6935.8	6273.7	5587.4
10°	8105.9	8144.2	8222.8	8326.6	8434.4	8405.2	8170.4	8114.0	7519.3	6674.8	5728.4
12.5°	7710.8	7715.9	7803.5	7973.9	8284.3	8602.7	8606.8	8587.6	8076.7	7094.0	5883.6
15°	7514.3	7533.4	7565.7	7675.6	7969.8	8479.8	8844.6	8871.8	8587.6	7539.5	6048.9
17.5°	7643.3	7670.5	7643.3	7656.4	7826.7	8285.3	8885.9	8955.5	9034.1	7979.9	6205.1
20°	7993.0	8018.2	7969.8	7916.4	7949.7	8228.8	8856.7	8950.4	9383.8	8370.9	6336.2
22.5°	8464.7	8474.8	8401.2	8313.5	8289.3	8420.3	8880.9	8977.7	9664.0	8724.7	6418.8
25°	8983.7	8992.8	8901.1	8800.3	8742.8	8796.2	9079.4	9152.0	9910.9	9062.3	6466.2
27.5°	9549.1	9557.2	9442.3	9318.3	9251.8	9253.8	9407.0	9484.6	10173.9	9447.3	6504.5
30°	10146.7	10142.7	10036.9	9864.5	9779.9	9777.9	9878.6	9957.3	10554.9	9941.1	6556.9
32.5°	10817.9	10809.9	10659.7	10446.0	10350.3	10364.4	10454.1	10499.5	11027.6	10467.2	6650.6
35°	11701.8	11678.6	11451.9	11186.8	11010.4	11005.4	11081.0	11117.3	11630.2	11104.2	6806.8
37.5°	12848.7	12827.5	12520.1	12135.2	11887.2	11794.5	11884.2	11930.6	12489.9	11921.5	7057.8
40°	13979.5	13958.3	13775.9	13423.1	13041.2	12818.5	12889.0	12938.4	13563.2	12913.2	7374.2
42.5°	14759.5	14777.7	14841.1	14870.4	14512.6	14045.0	14077.2	14128.6	14691.0	13973.4	7736.0
45°	14965.1	15004.4	15363.2	16067.7	16201.7	15836.9	15499.3	15527.5	15836.9	15033.6	8097.8
47.5°	14347.3	14419.9	15112.3	16422.4	17557.2	17815.2	17176.3	17139.0	16936.4	15891.3	8354.8
50°	12943.4	13009.9	13906.9	15844.9	17968.4	19703.9	19185.9	19076.0	17900.9	16404.3	8445.5
52.5°	10911.7	10992.3	11720.9	14026.8	17193.4	20546.4	21088.6	20996.9	18608.4	16444.6	8460.6
55°	7705.8	7803.5	8574.5	10750.4	14737.3	19876.2	21762.9	21735.6	19195.9	16337.8	8492.9
57.5°	4330.6	4401.1	5232.6	6891.5	10793.7	17312.3	21058.4	21238.8	19550.7	16152.3	8541.3
60°	1922.9	1942.1	2372.4	3430.6	6319.0	13230.7	19041.7	19346.1	19246.3	15904.4	8622.9
62.5°	1066.3	1050.1	1050.1	1426.1	2746.3	8190.5	15527.5	16030.4	17947.2	15611.1	8626.9
65°	835.5	820.4	777.0	783.1	1046.1	3635.2	10752.4	11646.4	15480.1	14751.5	8336.7
67.5°	708.5	695.4	652.1	634.9	650.0	1199.3	5907.8	6836.0	11746.1	12517.1	7221.0
70°	598.6	589.6	567.4	546.2	507.9	592.6	2260.5	2891.4	7238.2	8326.6	4929.2
72.5°	481.7	477.7	485.8	467.6	421.3	395.1	773.0	936.3	3251.2	3715.8	2030.8
75°	415.2	413.2	417.2	399.1	346.7	275.1	393.0	429.3	917.1	909.1	411.2
77.5°	270.1	273.1	345.7	337.6	298.3	183.4	203.6	219.7	278.2	208.6	125.0
80°	172.3	170.3	175.4	280.2	268.1	140.1	101.8	106.8	134.0	102.8	60.5
82.5°	104.8	102.8	114.9	131.0	135.0	97.8	62.5	63.5	83.6	66.5	32.3
85°	9.1	12.1	69.5	64.5	46.4	30.2	30.2	32.3	44.3	39.3	18.1
87.5°	0.0	0.0	12.1	18.1	10.1	11.1	11.1	12.1	17.1	17.1	9.1
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°	5226.6	5226.6	5226.6	5226.6	5226.6	5226.6	5226.6	5226.6	5226.6	5226.6	5226.6
2.5°	5230.6	5125.8	4914.1	4710.5	4538.2	4371.9	4182.5	3995.0	3907.3	3872.0	3835.8
5°	5239.7	5024.0	4587.6	4148.2	3692.7	3282.5	2932.8	2574.0	2394.6	2316.0	2279.7
7.5°	5251.7	4923.2	4217.7	3480.0	2746.3	2190.0	1704.2	1391.8	1256.8	1235.6	1183.2
10°	5253.8	4801.3	3788.4	2742.3	1841.3	1320.2	1015.9	854.6	795.2	785.1	768.0
12.5°	5257.8	4657.1	3311.7	2030.8	1227.5	882.8	734.7	681.3	665.2	664.2	664.2
15°	5269.9	4506.0	2816.9	1463.4	881.8	699.4	645.0	623.8	617.8	620.8	619.8
17.5°	5269.9	4327.6	2331.1	1090.5	712.5	628.9	598.6	584.5	582.5	585.5	586.6
20°	5231.6	4110.9	1885.6	848.6	631.9	583.5	556.3	543.2	538.2	540.2	541.2
22.5°	5139.9	3844.8	1522.8	702.5	578.5	542.2	513.0	492.8	484.8	485.8	485.8
25°	4996.8	3529.4	1191.2	607.7	535.2	497.9	463.6	440.4	435.4	434.4	436.4
27.5°	4813.3	3180.7	948.4	535.2	483.8	448.5	414.2	395.1	391.0	392.0	393.0
30°	4632.9	2818.9	747.8	473.7	426.3	393.0	366.8	357.8	357.8	360.8	361.8
32.5°	4467.7	2471.2	591.6	420.3	374.9	344.7	329.6	328.5	333.6	335.6	336.6
35°	4325.6	2149.7	489.8	378.9	334.6	308.4	303.4	307.4	313.4	317.5	318.5
37.5°	4224.8	1862.5	428.3	344.7	303.4	282.2	281.2	289.2	297.3	306.4	308.4
40°	4182.5	1619.6	386.0	314.4	278.2	262.0	259.0	270.1	285.2	298.3	300.3
42.5°	4147.2	1421.0	349.7	285.2	258.0	234.8	233.8	247.9	266.1	279.2	282.2
45°	4116.9	1261.8	316.5	254.0	231.8	201.6	204.6	222.7	236.8	250.9	254.0
47.5°	4054.5	1130.8	280.2	220.7	191.5	172.3	178.4	194.5	205.6	226.8	229.8
50°	3942.6	1023.9	242.9	180.4	156.2	149.2	158.2	169.3	183.4	201.6	203.6
52.5°	3867.0	943.3	210.6	151.2	129.0	131.0	140.1	144.1	152.2	159.2	157.2
55°	3823.7	899.0	184.4	131.0	109.9	115.9	117.9	112.9	108.8	101.8	98.8
57.5°	3818.6	858.7	164.3	113.9	96.8	99.8	92.7	75.6	61.5	53.4	51.4
60°	3810.6	809.3	148.1	95.7	85.7	81.6	66.5	41.3	29.2	27.2	27.2
62.5°	3722.9	732.7	136.1	80.6	72.6	61.5	38.3	19.1	16.1	17.1	17.1
65°	3443.7	625.9	124.0	65.5	57.4	44.3	19.1	11.1	6.0	7.1	7.1
67.5°	2927.7	498.9	110.9	50.4	43.3	28.2	11.1	5.0	0.0	0.0	0.0
70°	1960.2	309.4	93.7	35.3	28.2	17.1	8.1	1.0	0.0	0.0	0.0
72.5°	751.8	167.3	75.6	21.2	18.1	12.1	5.0	0.0	0.0	0.0	0.0
75°	169.3	109.9	52.4	15.1	13.1	8.1	2.0	0.0	0.0	0.0	0.0
77.5°	64.5	79.6	30.2	10.1	9.1	5.0	0.0	0.0	0.0	0.0	0.0
80°	31.2	47.4	14.1	6.0	5.0	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.1	18.1	6.0	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.1	9.1	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	3.0	1.0	1.0	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)