

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: P956277

Luminaire Tested: **GALN-SB9A-727-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32312 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 255.5
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

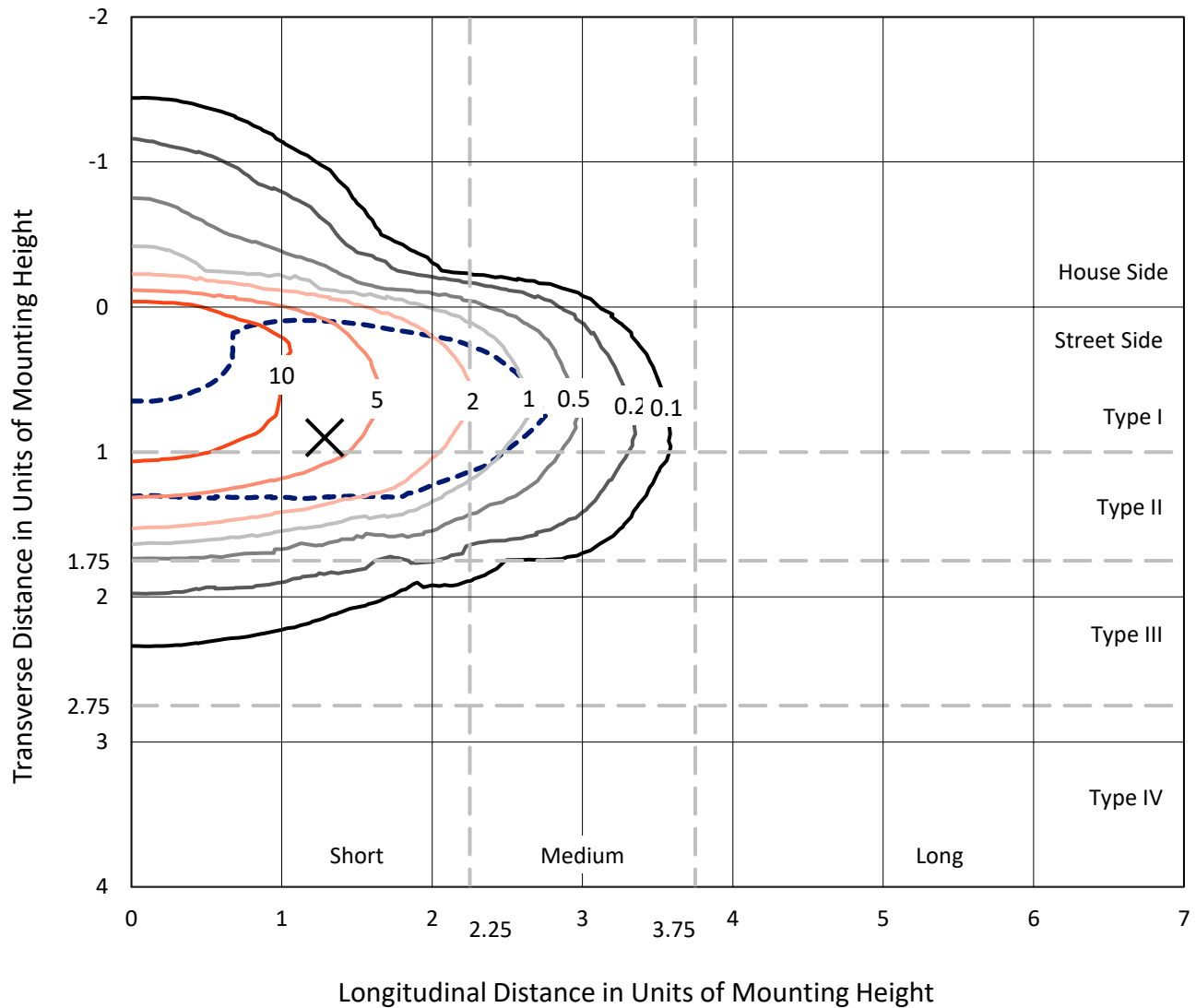


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

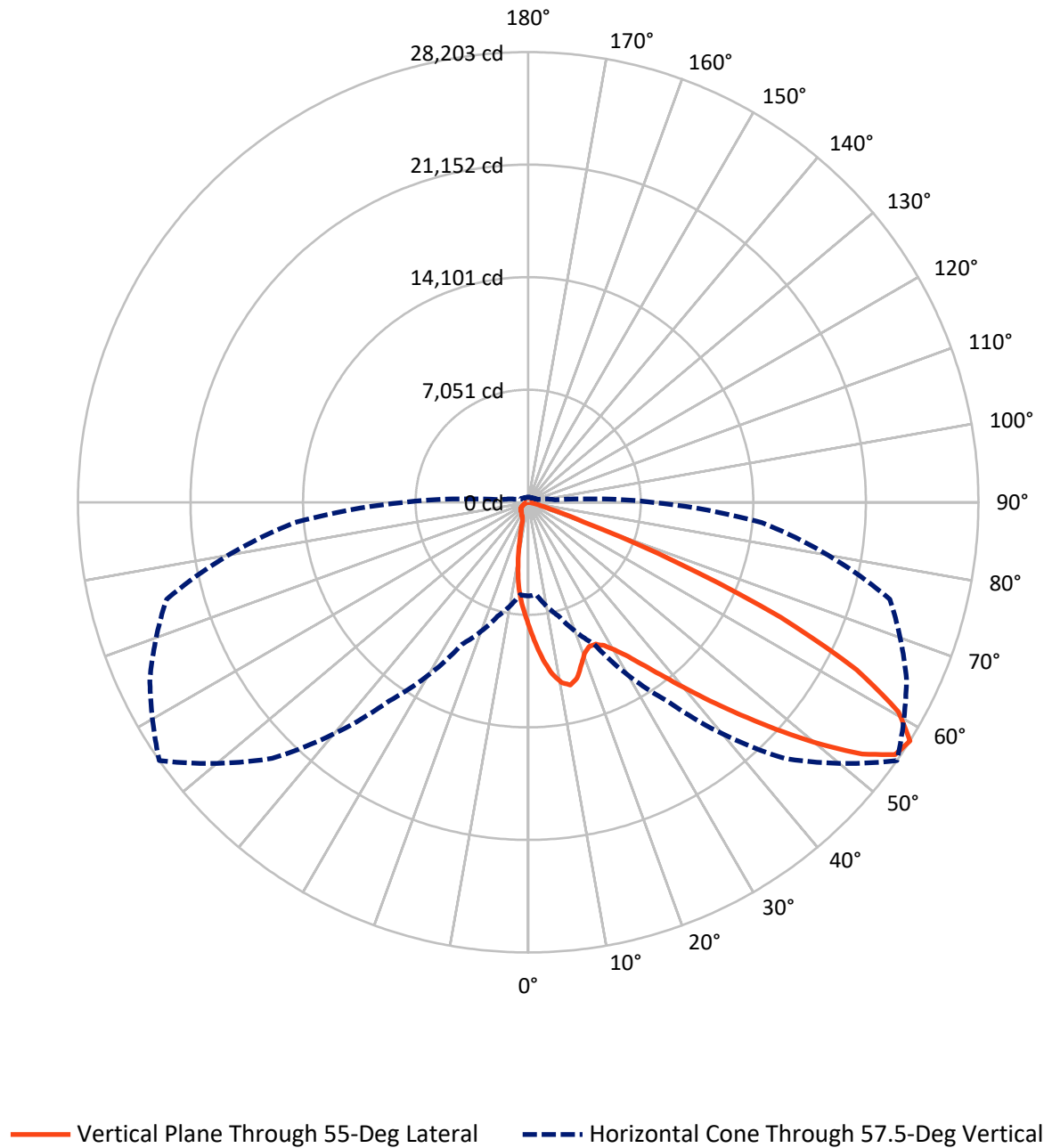


Based on 25 foot mounting height. Maximum calculated value = 17.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2523.4	0.0	2523.4
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	29788.6	0.0	29788.6
	% Fixture	92.2	0.0	92.2
Total	Lumens	32312.0	0.0	32312.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	724.5	2.2
10°-20°	1750.0	5.4
20°-30°	2800.0	8.7
30°-40°	4739.1	14.7
40°-50°	7780.6	24.1
50°-60°	8551.4	26.5
60°-70°	4905.1	15.2
70°-80°	1002.3	3.1
80°-90°	59.1	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°	32312.0	100.0
0°-180°	32312.0	100.0

Coefficient of Utilization



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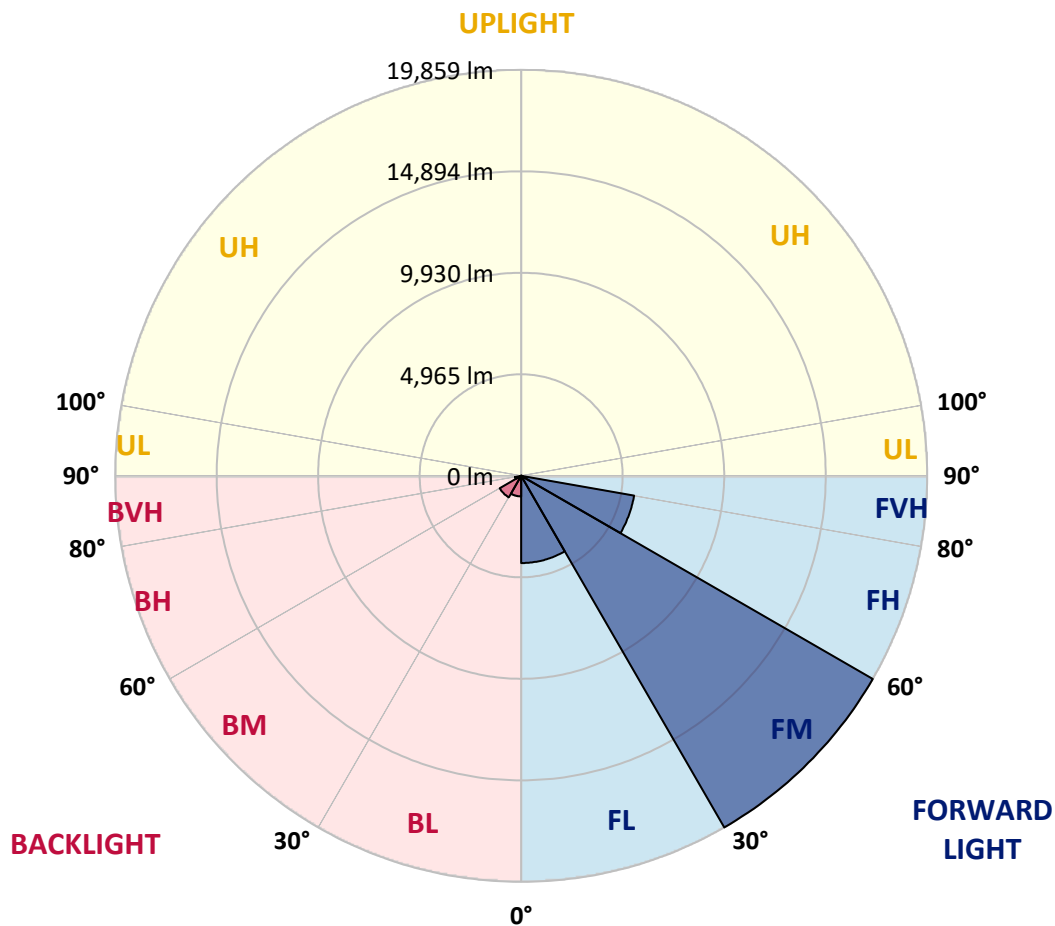
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4267.0	13.2			
FM	(30°-60°)	19859.2	61.5			
FH	(60°-80°)	5607.2	17.4			G3/7500
FVH	(80°-90°)	55.1	0.2			G1/100
BL	(0°-30°)	1007.4	3.1	B3/2500		
BM	(30°-60°)	1211.9	3.8	B2/2500		
BH	(60°-80°)	300.1	0.9	B1/500		G1/500
BVH	(80°-90°)	4.0	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7786.4	7786.4	7786.4	7786.4	7786.4	7786.4	7786.4	7786.4	7786.4	7786.4	7786.4
2.5°	9661.3	9539.7	9521.8	9497.9	9266.8	9093.4	8842.4	8567.4	8258.6	7943.8	7804.3
5°	11161.6	11065.9	11048.0	10936.4	10673.4	10378.5	9932.2	9368.4	8792.6	8115.1	7824.3
7.5°	11452.5	11434.5	11516.2	11512.2	11476.4	11243.3	10866.7	10195.2	9330.5	8326.3	7876.1
10°	10155.4	10201.2	10444.3	10657.5	11233.3	11568.0	11486.3	10932.4	9884.4	8567.4	7933.8
12.5°	8973.9	8920.1	9093.4	9334.5	10004.0	11000.2	11743.4	11548.1	10518.0	8840.4	8019.5
15°	8232.7	8210.8	8308.4	8420.0	8930.0	9934.2	11444.5	12048.2	11127.7	9163.2	8149.0
17.5°	7995.6	7977.7	8007.6	8035.4	8366.2	9143.2	10733.2	12355.0	11711.5	9531.8	8292.5
20°	8188.9	8165.0	8161.0	8139.1	8276.5	8806.5	10089.6	12376.9	12235.5	9866.5	8416.0
22.5°	8752.7	8724.8	8627.2	8539.5	8551.5	8852.3	9802.7	12157.8	12630.0	10179.3	8493.7
25°	9774.8	9729.0	9525.8	9230.9	9043.6	9171.1	9846.6	11868.9	13006.5	10424.4	8455.9
27.5°	11054.0	10994.2	10733.2	10294.9	9866.5	9711.1	10163.4	11669.6	13319.4	10611.7	8374.2
30°	12307.2	12229.5	11972.5	11631.8	11006.2	10516.0	10735.2	11757.3	13691.9	10806.9	8266.6
32.5°	13660.1	13586.3	13245.6	12823.2	12305.2	11645.7	11518.2	12185.7	14148.2	11079.9	8190.9
35°	15371.6	15256.0	14771.8	14196.0	13646.1	12978.7	12578.2	12924.9	14755.9	11496.3	8232.7
37.5°	17320.1	17164.7	16642.7	15847.7	15130.5	14383.3	13869.3	13941.0	15646.5	12054.2	8362.2
40°	19157.2	19015.7	18533.5	17784.4	16883.8	15977.3	15429.3	15269.9	16875.8	12733.6	8589.3
42.5°	20259.0	20131.5	19928.2	19611.4	18852.3	17927.8	17236.5	16891.8	18330.3	13546.5	8866.3
45°	20320.7	20209.2	20482.1	20850.7	20701.3	20085.6	19242.8	18611.2	19790.8	14309.6	9153.2
47.5°	19332.5	19256.8	20085.6	21372.7	22014.3	22273.3	21496.3	20187.2	20996.2	14857.5	9270.8
50°	16638.7	16610.8	18316.4	20679.4	22514.4	24190.0	23873.2	21653.7	21930.6	15140.4	9159.2
52.5°	14427.1	14325.5	15319.8	18459.8	21787.2	25198.2	26196.4	23092.2	22584.1	15194.2	8898.2
55°	10942.4	10852.7	12100.0	14745.9	19442.1	24839.6	27895.9	24576.6	23052.4	15056.8	8429.9
57.5°	5869.7	5813.9	7389.9	9814.7	15198.2	22687.7	28202.8	26146.6	23446.9	14692.1	7774.4
60°	2285.3	2275.3	2865.1	4761.9	9236.9	18457.8	26654.7	27089.0	23693.9	14243.8	7226.5
62.5°	1382.7	1412.6	1508.3	2137.9	4080.5	11466.4	23086.2	26017.1	23859.3	13833.4	6774.2
65°	1143.7	1145.6	1157.6	1468.4	1954.6	4797.8	17379.9	22490.5	23450.8	13102.2	6132.7
67.5°	980.3	998.2	1044.0	1165.6	1378.8	2104.0	10006.0	17421.8	20966.3	11400.7	5132.5
70°	773.1	797.0	854.8	958.4	1064.0	1317.0	3697.9	11591.9	16017.1	8593.3	3881.2
72.5°	651.5	649.5	679.4	779.0	844.8	926.5	1422.6	6495.3	9308.6	4102.4	1920.7
75°	504.1	524.0	561.9	651.5	691.4	671.4	771.1	2373.0	3335.3	1243.3	653.5
77.5°	394.5	410.4	444.3	532.0	571.8	476.2	444.3	848.8	1071.9	446.3	294.9
80°	177.3	191.3	302.8	392.5	466.2	328.8	241.1	434.3	476.2	203.2	149.4
82.5°	31.9	53.8	177.3	207.2	239.1	213.2	125.5	225.1	233.1	81.7	51.8
85°	2.0	4.0	61.8	75.7	95.6	69.7	37.9	89.7	77.7	27.9	19.9
87.5°	0.0	0.0	0.0	2.0	2.0	10.0	12.0	15.9	12.0	10.0	8.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7786.4	7786.4	7786.4	7786.4	7786.4	7786.4	7786.4	7786.4	7786.4	7786.4
2.5°	7660.9	7377.9	7103.0	6877.8	6746.3	6523.2	6375.8	6351.8	6290.1	6343.9
5°	7513.4	7007.4	6495.3	6037.0	5660.5	5174.3	4811.7	4658.3	4524.8	4570.6
7.5°	7443.7	6644.7	5847.8	5064.7	4259.8	3482.8	2905.0	2663.9	2480.6	2506.5
10°	7350.1	6268.2	5018.9	3823.5	2745.6	1978.5	1580.0	1432.6	1350.9	1352.9
12.5°	7278.3	5817.9	4056.6	2592.1	1671.6	1263.2	1139.7	1103.8	1079.9	1081.9
15°	7242.5	5287.9	3106.2	1727.4	1195.5	1069.9	1040.0	1024.1	1008.2	1006.2
17.5°	7182.7	4698.1	2273.4	1261.2	1046.0	1002.2	976.3	958.4	938.4	934.4
20°	7093.0	4028.7	1661.7	1065.9	980.3	946.4	910.5	886.6	862.7	858.7
22.5°	6927.7	3321.4	1277.1	986.3	932.5	894.6	850.8	822.9	799.0	795.0
25°	6620.8	2657.9	1075.9	936.4	890.6	844.8	797.0	759.1	737.2	733.2
27.5°	6232.3	2088.1	976.3	890.6	836.8	795.0	741.2	705.3	685.4	681.4
30°	5774.0	1607.9	918.5	838.8	773.1	737.2	689.4	659.5	647.5	647.5
32.5°	5279.9	1285.1	894.6	787.0	717.3	677.4	639.6	627.6	623.6	621.6
35°	4815.7	1115.8	882.6	745.2	667.5	629.6	613.7	615.7	623.6	623.6
37.5°	4403.3	1062.0	876.7	715.3	623.6	589.8	599.7	617.7	609.7	609.7
40°	4030.7	1067.9	872.7	693.4	587.8	567.8	587.8	573.8	553.9	551.9
42.5°	3745.8	1117.8	864.7	675.4	565.8	551.9	543.9	522.0	520.0	524.0
45°	3538.5	1161.6	862.7	667.5	541.9	516.0	506.1	484.2	524.0	534.0
47.5°	3293.5	1161.6	862.7	639.6	502.1	492.1	476.2	452.3	492.1	502.1
50°	2976.7	1087.9	828.8	607.7	470.2	464.2	436.3	406.5	398.5	404.5
52.5°	2576.2	954.4	743.2	563.9	438.3	426.4	392.5	370.6	364.6	364.6
55°	2119.9	799.0	627.6	500.1	404.5	382.5	358.6	348.7	342.7	338.7
57.5°	1723.4	655.5	504.1	444.3	372.6	344.7	336.7	324.8	314.8	308.8
60°	1414.6	516.0	416.4	394.5	340.7	314.8	312.8	296.9	271.0	267.0
62.5°	1091.8	378.6	350.7	342.7	308.8	286.9	282.9	251.0	211.2	203.2
65°	771.1	294.9	282.9	300.9	275.0	255.0	245.1	197.3	155.4	149.4
67.5°	541.9	247.1	223.2	263.0	239.1	213.2	207.2	167.4	129.5	125.5
70°	386.5	201.2	183.3	225.1	191.3	187.3	175.3	139.5	105.6	101.6
72.5°	273.0	153.4	141.5	195.3	131.5	161.4	143.5	107.6	79.7	75.7
75°	201.2	109.6	99.6	113.6	95.6	121.5	101.6	71.7	49.8	47.8
77.5°	147.4	69.7	59.8	55.8	55.8	75.7	55.8	29.9	21.9	19.9
80°	103.6	31.9	27.9	23.9	21.9	17.9	8.0	4.0	2.0	2.0
82.5°	61.8	13.9	13.9	10.0	6.0	0.0	0.0	0.0	0.0	0.0
85°	13.9	6.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	2.0	0.0	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

(END OF REPORT)