

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: LUMARK

Report Number: P964212

Luminaire Tested: **NAV-SB3B-835-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964212
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: LUMARK
Catalog Number: NAV-SB3B-835-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 450mA 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: 13695 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 109.2
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



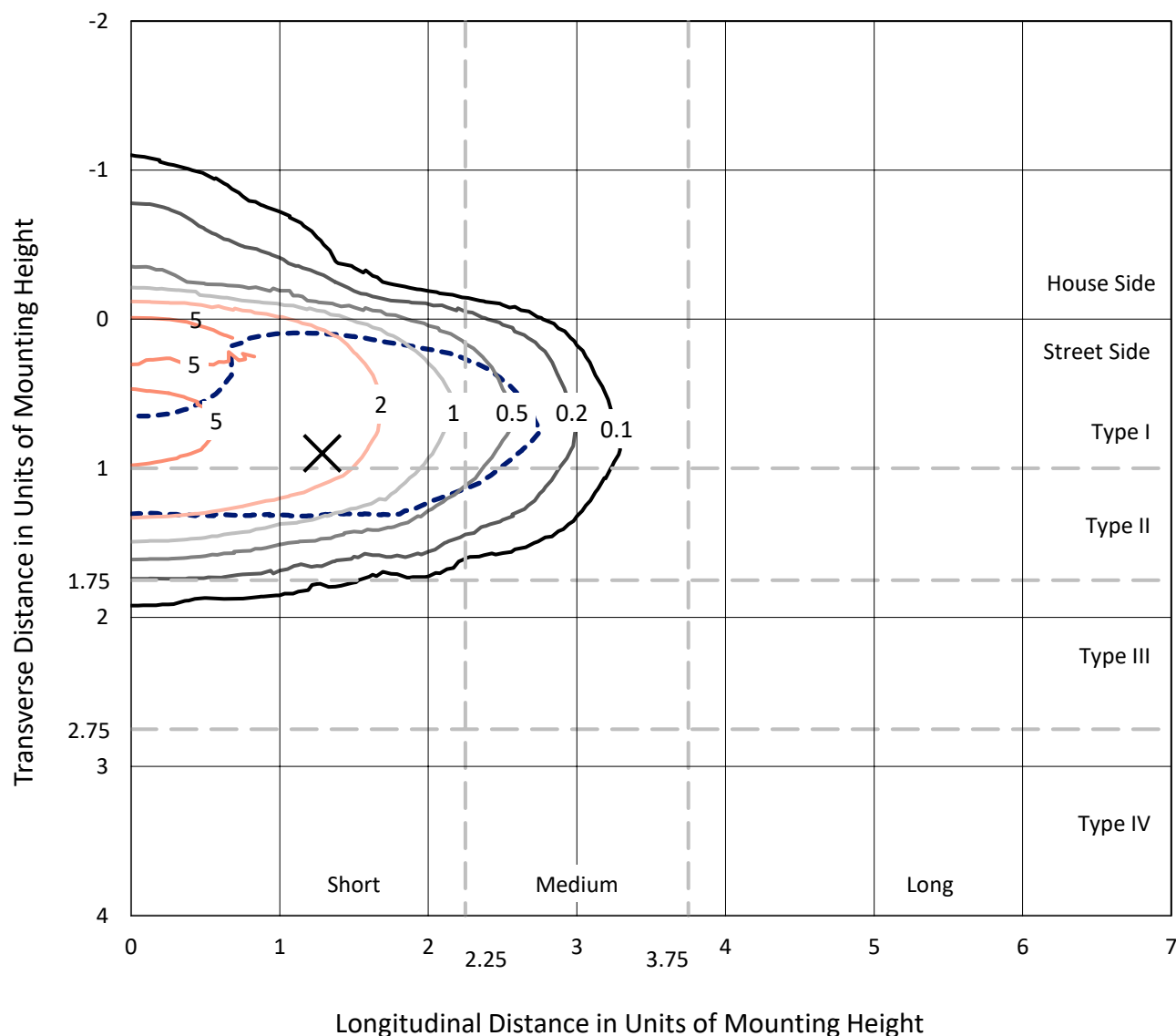
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

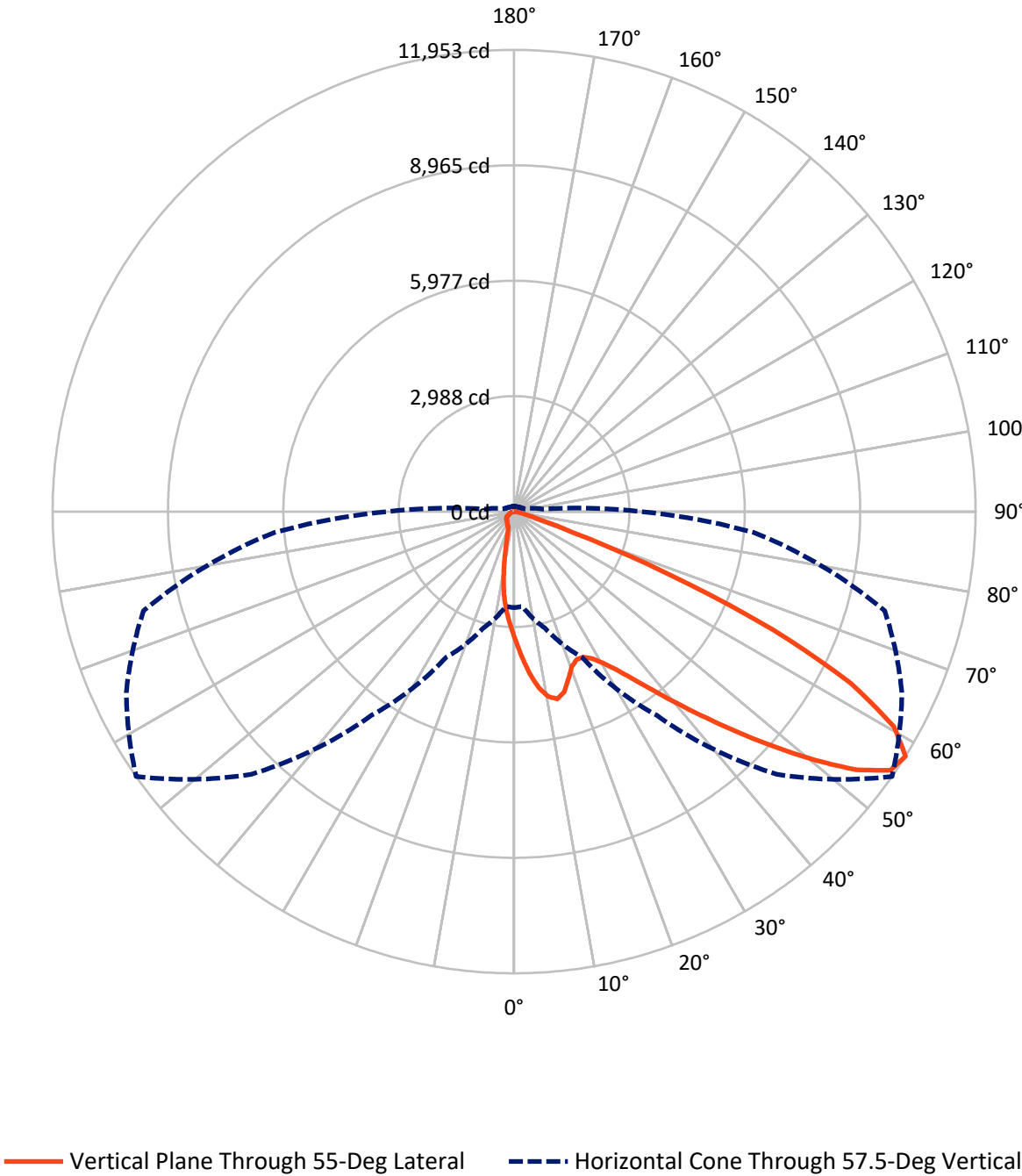


Based on 25 foot mounting height. Maximum calculated value = 7.6 fc

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	1069.5	0.0	1069.5
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	12625.5	0.0	12625.5
	% Fixture	92.2	0.0	92.2
Total	Lumens	13695.0	0.0	13695.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.1	2.2
10°-20°	741.7	5.4
20°-30°	1186.7	8.7
30°-40°	2008.6	14.7
40°-50°	3297.7	24.1
50°-60°	3624.4	26.5
60°-70°	2079.0	15.2
70°-80°	424.8	3.1
80°-90°	25.0	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°	13695.0	100.0
0°-180°	13695.0	100.0

Coefficient of Utilization



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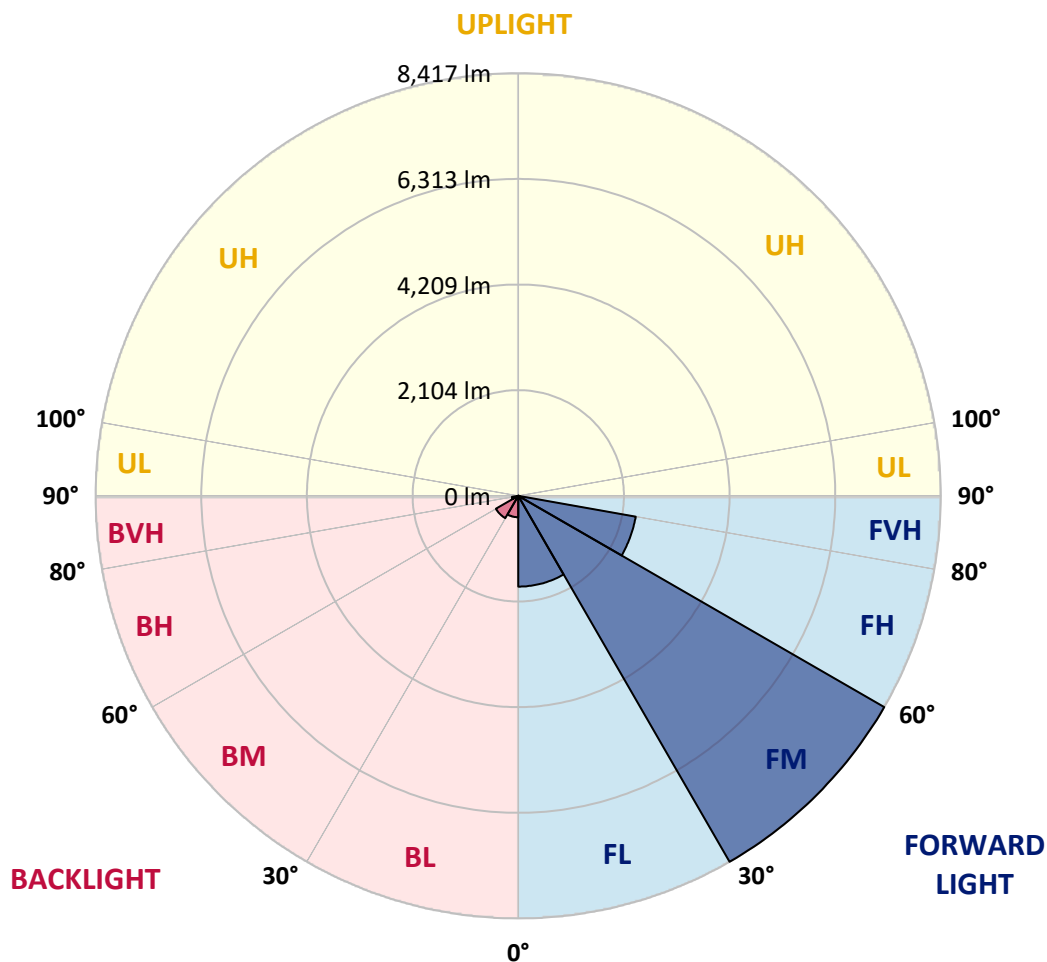
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1808.5	13.2			
FM	(30°-60°)	8417.1	61.5			
FH	(60°-80°)	2376.5	17.4			G2/5000
FVH	(80°-90°)	23.4	0.2			G1/100
BL	(0°-30°)	427.0	3.1	B1/500		
BM	(30°-60°)	513.7	3.8	B1/1000		
BH	(60°-80°)	127.2	0.9	B1/500		G1/500
BVH	(80°-90°)	1.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3300.2	3300.2	3300.2	3300.2	3300.2	3300.2	3300.2	3300.2	3300.2	3300.2	3300.2
2.5°	4094.8	4043.3	4035.7	4025.6	3927.6	3854.1	3747.7	3631.2	3500.3	3366.9	3307.8
5°	4730.7	4690.2	4682.5	4635.3	4523.8	4398.8	4209.7	3970.6	3726.6	3439.5	3316.2
7.5°	4854.0	4846.4	4881.0	4879.3	4864.1	4765.3	4605.7	4321.1	3954.7	3529.0	3338.1
10°	4304.2	4323.7	4426.7	4517.1	4761.1	4903.0	4868.3	4633.6	4189.4	3631.2	3362.6
12.5°	3803.5	3780.7	3854.1	3956.3	4240.0	4662.3	4977.3	4894.5	4457.9	3746.9	3399.0
15°	3489.3	3480.1	3521.4	3568.7	3784.9	4210.5	4850.6	5106.4	4716.3	3883.7	3453.8
17.5°	3388.9	3381.3	3393.9	3405.8	3545.9	3875.2	4549.2	5236.5	4963.8	4039.9	3514.6
20°	3470.8	3460.6	3459.0	3449.6	3507.9	3732.5	4276.4	5245.8	5185.9	4181.8	3567.0
22.5°	3709.7	3697.9	3656.5	3619.4	3624.4	3751.9	4154.7	5152.9	5353.1	4314.3	3599.9
25°	4142.9	4123.5	4037.4	3912.4	3833.0	3887.1	4173.4	5030.5	5512.7	4418.3	3583.9
27.5°	4685.1	4659.8	4549.2	4363.3	4181.8	4115.9	4307.6	4946.0	5645.2	4497.6	3549.3
30°	5216.2	5183.3	5074.4	4929.9	4664.8	4457.1	4550.0	4983.1	5803.1	4580.4	3503.7
32.5°	5789.6	5758.3	5614.0	5435.0	5215.4	4935.9	4881.9	5164.8	5996.6	4696.0	3471.6
35°	6515.0	6466.0	6260.8	6016.9	5783.8	5500.9	5331.1	5478.0	6254.1	4872.5	3489.3
37.5°	7340.9	7275.0	7053.8	6716.8	6412.8	6096.2	5878.3	5908.7	6631.5	5109.0	3544.2
40°	8119.5	8059.6	7855.2	7537.6	7155.9	6771.8	6539.5	6472.0	7152.7	5396.9	3640.5
42.5°	8586.5	8532.5	8446.3	8312.0	7990.3	7598.5	7305.5	7159.3	7769.1	5741.5	3757.9
45°	8612.7	8565.4	8681.1	8837.3	8774.0	8513.0	8155.8	7888.1	8388.1	6064.9	3879.4
47.5°	8193.8	8161.8	8513.0	9058.5	9330.5	9440.2	9110.9	8556.1	8898.9	6297.2	3929.3
50°	7052.1	7040.3	7763.1	8764.7	9542.4	10252.7	10118.4	9177.6	9295.0	6417.1	3882.0
52.5°	6114.7	6071.7	6493.1	7823.9	9234.2	10679.9	11103.0	9787.3	9572.0	6439.9	3771.4
55°	4637.8	4599.8	5128.4	6249.8	8240.3	10527.9	11823.4	10416.5	9770.4	6381.6	3572.9
57.5°	2487.8	2464.1	3132.1	4159.9	6441.6	9615.9	11953.3	11081.9	9937.7	6227.1	3295.1
60°	968.6	964.4	1214.3	2018.2	3914.9	7823.1	11297.2	11481.3	10042.3	6037.0	3062.9
62.5°	586.1	598.7	639.3	906.1	1729.5	4859.9	9784.8	11027.1	10112.4	5863.1	2871.1
65°	484.7	485.5	490.7	622.4	828.4	2033.5	7366.3	9532.3	9939.3	5553.1	2599.3
67.5°	415.4	423.1	442.5	494.0	584.4	891.7	4240.9	7384.0	8886.3	4832.1	2175.4
70°	327.7	337.7	362.2	406.2	450.9	558.2	1567.3	4913.1	6788.7	3642.1	1645.0
72.5°	276.1	275.3	287.9	330.2	358.0	392.7	602.9	2752.9	3945.3	1738.7	814.1
75°	213.6	222.1	238.1	276.1	293.0	284.5	326.8	1005.7	1413.7	527.0	277.0
77.5°	167.2	173.9	188.3	225.5	242.3	201.8	188.3	359.8	454.3	189.1	124.9
80°	75.1	81.1	128.3	166.4	197.6	139.3	102.2	184.1	201.8	86.1	63.3
82.5°	13.5	22.8	75.1	87.8	101.4	90.4	53.2	95.4	98.8	34.6	21.9
85°	0.8	1.6	26.1	32.1	40.5	29.5	16.1	38.0	32.9	11.8	8.4
87.5°	0.0	0.0	0.0	0.8	0.8	4.2	5.0	6.8	5.0	4.2	3.4
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°	3300.2	3300.2	3300.2	3300.2	3300.2	3300.2	3300.2	3300.2	3300.2	3300.2
2.5°	3247.0	3127.1	3010.5	2915.1	2859.3	2764.7	2702.3	2692.2	2665.9	2688.8
5°	3184.5	2969.9	2752.9	2558.7	2399.1	2193.1	2039.3	1974.4	1917.8	1937.2
7.5°	3155.0	2816.3	2478.4	2146.7	1805.4	1476.1	1231.2	1129.0	1051.3	1062.3
10°	3115.2	2656.7	2127.2	1620.5	1163.7	838.6	669.6	607.2	572.6	573.4
12.5°	3084.8	2465.8	1719.3	1098.7	708.5	535.4	483.1	467.8	457.7	458.6
15°	3069.7	2241.2	1316.5	732.2	506.7	453.5	440.9	434.1	427.3	426.5
17.5°	3044.2	1991.3	963.5	534.5	443.3	424.8	413.8	406.2	397.7	396.1
20°	3006.3	1707.5	704.3	451.8	415.4	401.1	385.9	375.8	365.6	364.0
22.5°	2936.2	1407.7	541.3	418.0	395.2	379.1	360.6	348.8	338.7	336.9
25°	2806.1	1126.5	456.0	396.9	377.5	358.0	337.7	321.7	312.4	310.8
27.5°	2641.5	885.0	413.8	377.5	354.6	336.9	314.2	298.9	290.5	288.8
30°	2447.3	681.5	389.3	355.5	327.7	312.4	292.2	279.5	274.5	274.5
32.5°	2237.8	544.7	379.1	333.5	304.0	287.1	271.1	266.0	264.3	263.4
35°	2041.1	472.9	374.1	315.8	282.9	266.8	260.1	261.0	264.3	264.3
37.5°	1866.2	450.1	371.6	303.2	264.3	250.0	254.2	261.8	258.4	258.4
40°	1708.4	452.6	369.9	293.9	249.1	240.7	249.1	243.2	234.7	233.9
42.5°	1587.6	473.8	366.5	286.3	239.8	233.9	230.5	221.3	220.4	222.1
45°	1499.8	492.3	365.6	282.9	229.7	218.7	214.5	205.2	222.1	226.3
47.5°	1395.9	492.3	365.6	271.1	212.8	208.6	201.8	191.7	208.6	212.8
50°	1261.7	461.0	351.3	257.6	199.3	196.8	184.9	172.3	168.9	171.4
52.5°	1091.9	404.5	315.0	239.0	185.8	180.7	166.4	157.0	154.6	154.6
55°	898.5	338.7	266.0	212.0	171.4	162.2	152.0	147.8	145.2	143.6
57.5°	730.4	277.9	213.6	188.3	158.0	146.1	142.7	137.7	133.5	130.9
60°	599.5	218.7	176.5	167.2	144.4	133.5	132.5	125.9	114.8	113.2
62.5°	462.8	160.4	148.6	145.2	130.9	121.6	119.9	106.4	89.5	86.1
65°	326.8	124.9	119.9	127.5	116.5	108.1	103.8	83.6	65.9	63.3
67.5°	229.7	104.8	94.6	111.5	101.4	90.4	87.8	70.9	54.9	53.2
70°	163.8	85.3	77.7	95.4	81.1	79.3	74.3	59.1	44.8	43.0
72.5°	115.7	65.0	60.0	82.7	55.8	68.4	60.8	45.6	33.8	32.1
75°	85.3	46.4	42.2	48.2	40.5	51.6	43.0	30.4	21.1	20.3
77.5°	62.5	29.5	25.3	23.7	23.7	32.1	23.7	12.7	9.3	8.4
80°	43.9	13.5	11.8	10.1	9.3	7.6	3.4	1.6	0.8	0.8
82.5°	26.1	5.9	5.9	4.2	2.6	0.0	0.0	0.0	0.0	0.0
85°	5.9	2.6	2.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.8	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)