

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: STREETWORKS

Report Number: P965529

Luminaire Tested: **NVN-SB4A-722-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4A-722-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12888.4 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

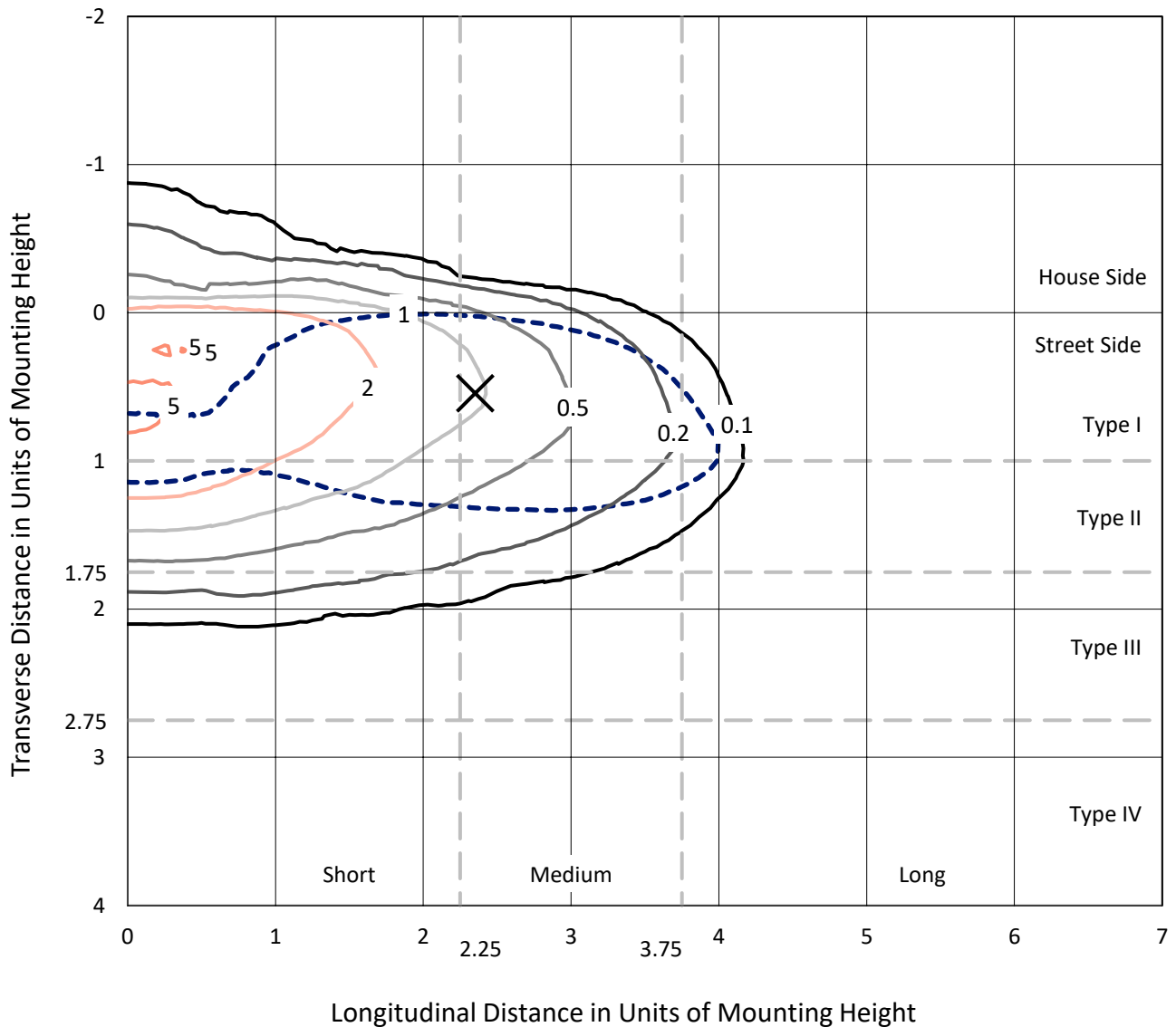
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P965529
 CATALOG NUMBER: NVN-SB4A-722-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

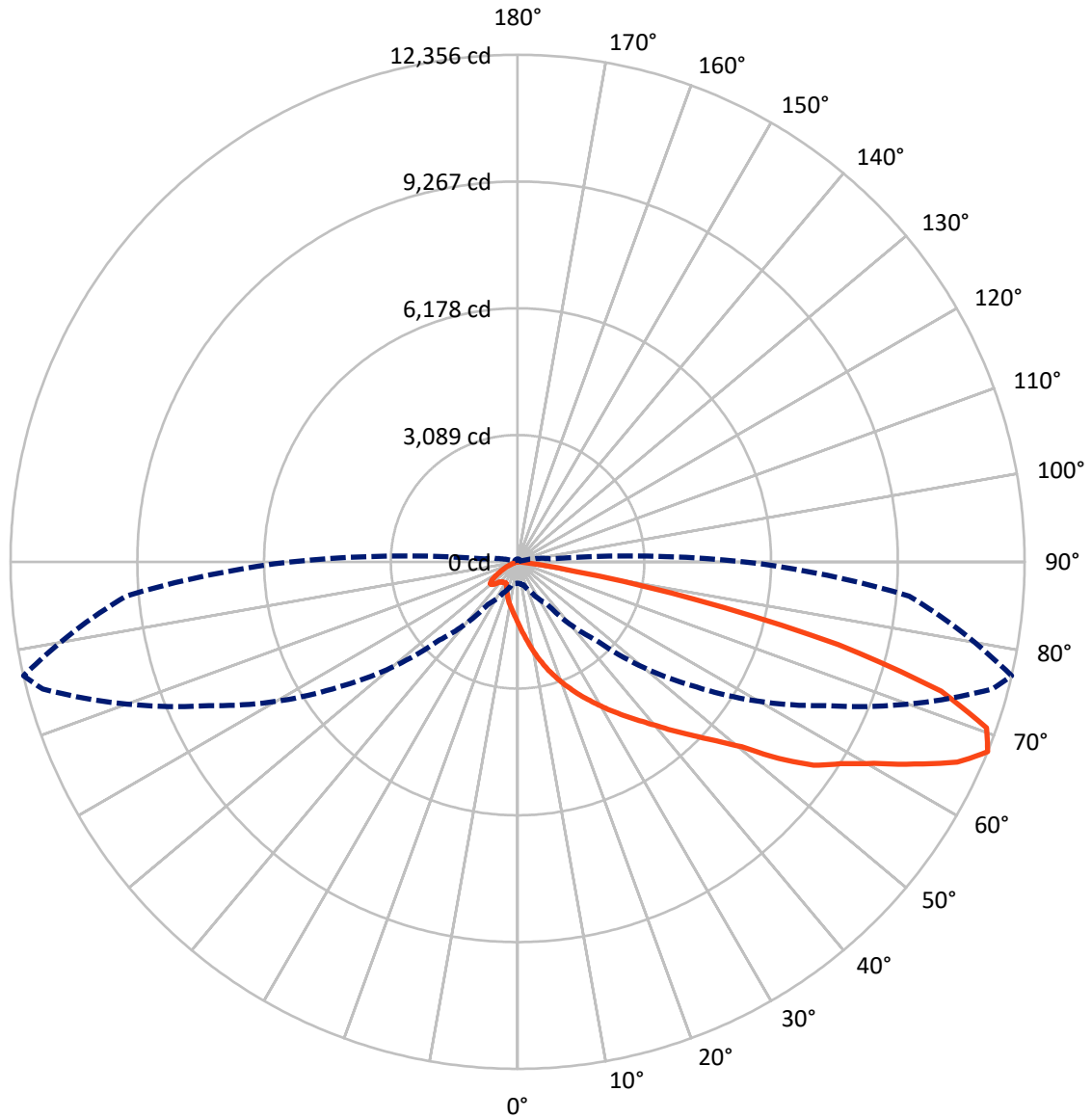
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Medium - N/A

REPORT NUMBER: P965529
CATALOG NUMBER: NVN-SB4A-722-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P965529
 CATALOG NUMBER: NVN-SB4A-722-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	948.2	0.0	948.2
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	11940.2	0.0	11940.2
	% Fixture	92.6	0.0	92.6
Total	Lumens	12888.4	0.0	12888.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.7	1.2
10°-20°	531.2	4.1
20°-30°	1025.1	8.0
30°-40°	1779.6	13.8
40°-50°	2583.9	20.0
50°-60°	2967.3	23.0
60°-70°	2576.2	20.0
70°-80°	1213.4	9.4
80°-90°	60.0	0.5
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°	12888.4	100.0
0°-180°	12888.4	100.0

Coefficient of Utilization

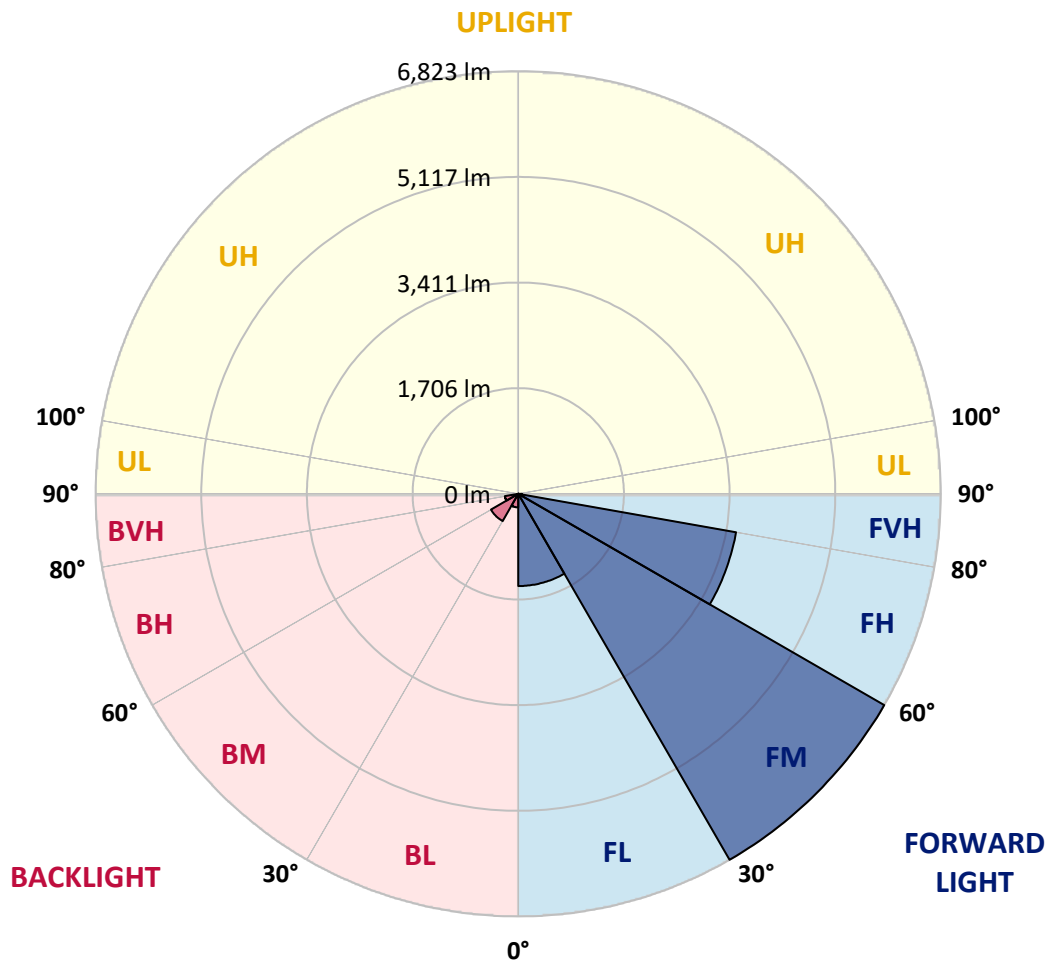


REPORT NUMBER: P965529
 CATALOG NUMBER: NVN-SB4A-722-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1488.5	11.5			
FM (30°-60°)	6822.8	52.9			
FH (60°-80°)	3570.0	27.7			G2/5000
FVH (80°-90°)	58.9	0.5			G1/100
BL (0°-30°)	219.5	1.7	B1/500		
BM (30°-60°)	508.1	3.9	B1/1000		
BH (60°-80°)	219.5	1.7	B1/500		G1/500
BVH (80°-90°)	1.1	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 Medium



REPORT NUMBER: P965529
 CATALOG NUMBER: NVN-SB4A-722-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1486.2	1486.2	1486.2	1486.2	1486.2	1486.2	1486.2	1486.2	1486.2	1486.2	1486.2
2.5°	2057.7	2070.5	2052.0	2016.8	1964.0	1929.6	1845.6	1766.4	1678.3	1650.2	1562.2
5°	2508.3	2519.4	2498.6	2460.2	2389.8	2322.5	2212.2	2046.4	1874.4	1819.2	1663.1
7.5°	2842.0	2848.4	2840.4	2805.1	2738.0	2661.9	2538.6	2342.5	2087.3	2026.4	1787.2
10°	3082.1	3102.9	3100.5	3086.9	3042.1	2980.4	2849.2	2625.8	2325.7	2247.3	1927.2
12.5°	3241.4	3264.5	3278.2	3308.6	3306.1	3267.0	3151.7	2915.6	2563.4	2471.4	2084.8
15°	3287.8	3312.6	3364.6	3435.0	3497.4	3517.5	3436.6	3199.7	2825.2	2707.5	2246.5
17.5°	3261.3	3299.8	3362.2	3473.4	3610.3	3700.8	3691.9	3474.2	3062.9	2928.4	2405.0
20°	3319.8	3356.6	3405.5	3499.0	3658.3	3822.4	3888.0	3736.7	3299.0	3158.1	2571.4
22.5°	3643.2	3636.7	3641.5	3656.7	3751.9	3914.4	4049.7	3975.3	3532.7	3388.6	2747.5
25°	4155.3	4126.5	4077.7	3995.2	3971.3	4049.7	4190.5	4186.5	3779.2	3624.7	2927.6
27.5°	4742.8	4738.0	4623.5	4425.0	4313.0	4282.6	4349.8	4392.2	4023.2	3858.4	3108.5
30°	5305.4	5318.2	5163.7	4942.9	4737.1	4617.9	4557.0	4587.5	4271.4	4110.5	3295.0
32.5°	5795.2	5808.8	5640.8	5382.3	5127.8	4983.7	4855.6	4780.4	4541.9	4366.6	3499.9
35°	6208.9	6222.6	6029.7	5744.0	5472.7	5342.2	5197.4	4991.6	4814.0	4650.7	3727.9
37.5°	6578.8	6574.8	6316.3	6028.1	5761.6	5658.3	5582.4	5251.8	5094.1	4936.4	3980.9
40°	6797.2	6814.0	6593.1	6275.4	6016.9	5941.6	5936.9	5574.4	5417.4	5264.6	4257.7
42.5°	6861.2	6890.9	6730.8	6469.9	6235.4	6153.8	6279.4	5923.3	5793.6	5644.8	4570.7
45°	6746.0	6774.8	6702.0	6521.2	6384.2	6331.4	6573.9	6285.0	6195.4	6048.1	4923.7
47.5°	6409.8	6445.9	6463.4	6425.1	6423.5	6477.1	6838.1	6666.0	6672.3	6521.9	5332.6
50°	5759.2	5820.1	5981.7	6117.7	6328.2	6592.3	7094.9	7079.0	7210.2	7080.5	5865.7
52.5°	4576.3	4662.7	5219.8	5591.9	6064.9	6570.8	7377.4	7741.6	8153.8	7964.1	6617.1
55°	3677.5	3677.5	4130.5	4826.8	5551.1	6428.3	7500.7	8172.2	8796.4	8751.7	7146.2
57.5°	2998.0	3034.1	3322.9	3938.5	4807.6	6088.9	7576.7	8442.7	9314.3	9281.5	7663.2
60°	1850.3	1928.0	2473.8	3081.3	3961.6	5484.7	7528.7	8716.4	9942.5	9968.9	8285.8
62.5°	1042.0	1070.8	1314.2	2216.9	3080.4	4672.4	7161.4	8869.3	10746.1	10858.1	8927.8
65°	719.4	733.9	827.6	1379.8	2135.3	3719.9	6443.5	8774.0	11551.2	11777.7	9471.9
67.5°	522.6	529.8	588.2	842.8	1266.9	2697.1	5318.2	8293.8	11977.7	12356.3	9576.0
70°	401.8	406.6	449.0	553.8	748.4	1664.7	3862.4	7339.0	11668.8	12121.0	9043.0
72.5°	326.6	331.4	364.2	409.8	496.2	984.4	2341.0	5960.1	10305.0	10793.2	7698.4
75°	275.3	281.7	311.3	340.9	389.0	632.2	1098.1	4150.5	7749.6	8069.7	5353.4
77.5°	152.8	140.8	252.9	282.5	328.1	400.2	513.8	2442.6	4340.2	4429.0	2375.3
80°	95.2	98.4	200.9	227.3	252.2	201.7	235.3	940.4	1504.6	1429.4	460.2
82.5°	5.6	12.8	154.5	164.1	172.9	86.4	88.9	319.3	362.5	332.9	81.6
85°	0.0	0.0	70.4	56.8	60.1	24.8	25.6	74.4	48.8	52.8	16.0
87.5°	0.0	0.0	0.0	1.6	0.0	2.4	4.8	6.4	2.4	3.2	5.6
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: P965529
 CATALOG NUMBER: NVN-SB4A-722-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1486.2	1486.2	1486.2	1486.2	1486.2	1486.2	1486.2	1486.2	1486.2	1486.2	1486.2
2.5°	1506.2	1450.2	1336.6	1225.3	1134.9	1050.8	990.8	934.0	905.2	903.5	902.0
5°	1551.8	1434.2	1206.9	1006.0	844.4	714.7	630.7	570.6	540.2	529.8	528.2
7.5°	1615.9	1439.0	1093.3	814.0	623.5	512.2	464.2	445.0	438.6	431.4	429.8
10°	1696.7	1450.2	991.6	655.5	491.4	435.4	416.2	408.2	403.3	398.5	397.0
12.5°	1787.2	1460.6	890.7	544.3	432.1	403.3	389.8	380.2	373.7	368.2	366.5
15°	1875.1	1467.0	786.0	466.6	401.8	378.5	364.2	353.7	344.9	338.6	337.7
17.5°	1962.4	1475.8	687.5	420.1	377.0	353.7	339.4	326.6	319.3	312.1	311.3
20°	2059.2	1474.3	594.6	387.3	352.2	328.9	313.8	301.8	294.5	286.5	285.7
22.5°	2148.9	1466.2	513.0	359.4	326.6	304.1	287.3	275.3	268.1	261.7	260.9
25°	2252.1	1459.8	445.0	333.7	302.5	280.1	261.7	250.5	242.5	236.9	236.1
27.5°	2351.4	1450.2	395.3	310.6	279.3	257.7	240.1	227.3	220.1	216.1	216.1
30°	2449.0	1447.8	377.0	288.1	258.5	236.9	219.2	207.3	201.7	200.1	199.3
32.5°	2566.7	1454.2	385.0	280.1	239.3	217.7	200.9	192.1	186.4	186.4	186.4
35°	2692.4	1452.6	397.0	287.3	226.5	198.4	185.6	180.1	174.5	174.5	174.5
37.5°	2850.0	1455.0	406.6	299.3	221.7	182.4	175.3	168.1	164.8	164.8	164.8
40°	3085.2	1534.2	401.8	309.8	220.1	171.3	156.8	154.5	152.1	152.1	152.1
42.5°	3373.4	1706.3	408.2	310.6	219.2	163.3	144.0	148.8	143.3	142.5	141.7
45°	3688.8	1894.4	449.0	293.8	218.5	159.3	137.7	143.3	134.5	134.5	134.5
47.5°	4001.7	2080.9	490.6	269.7	216.1	158.5	132.0	128.8	126.5	127.2	127.2
50°	4433.0	2233.0	506.7	236.9	210.5	156.8	121.7	122.5	120.8	122.5	122.5
52.5°	4902.9	2264.9	487.4	200.1	194.4	152.1	114.5	117.7	116.8	118.5	118.5
55°	5195.7	2230.5	402.5	166.5	169.6	132.8	107.2	113.7	113.7	113.7	113.7
57.5°	5498.3	2084.0	285.7	135.3	140.8	108.9	100.9	109.7	108.9	108.0	108.0
60°	5716.0	1847.2	188.1	111.2	112.0	89.7	93.7	103.2	102.4	98.4	98.4
62.5°	5878.5	1585.5	120.8	94.4	85.6	80.9	85.6	93.7	90.4	81.6	80.1
65°	5860.0	1222.9	92.9	80.9	70.4	70.4	74.4	81.6	72.1	57.6	56.1
67.5°	5518.3	827.6	76.9	68.1	59.2	58.4	61.6	68.1	61.6	48.8	47.3
70°	4907.6	541.0	61.6	52.8	47.3	43.3	49.6	58.4	52.1	39.3	37.6
72.5°	3983.3	329.7	46.4	38.4	34.4	28.0	39.3	48.0	41.6	28.8	27.2
75°	2577.1	168.1	32.0	24.8	18.4	16.8	28.8	36.0	28.8	17.6	15.2
77.5°	986.0	70.4	17.6	11.2	9.6	8.0	16.0	21.6	12.0	4.0	3.2
80°	189.7	29.6	8.8	5.6	4.8	3.2	2.4	1.6	0.0	0.0	0.0
82.5°	32.8	9.6	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	0.0	0.0	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	0.0

(END OF REPORT)